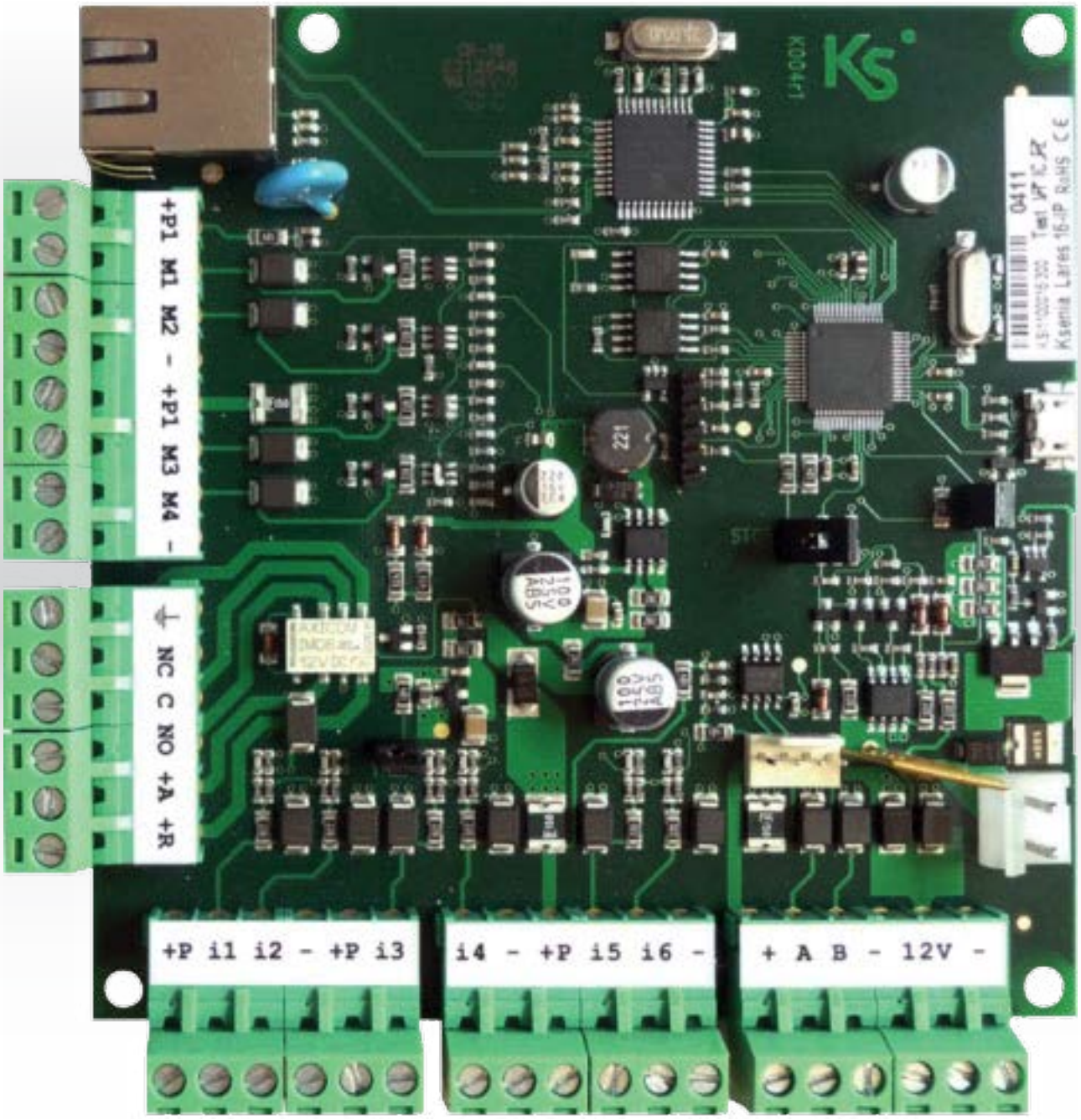
PROGRAMMING MANUAL

lares

INTEGRATED PANELS

KSI1000016.300 - KSI1100016.300 - KSI1000048.300 - KSI1100048.300 - KSI1100128.300



Ksenia
security innovation

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INTRODUCTION

The programming platform and central management tool is ***basis***; this SOFTWARE can be downloaded from our website: *http://www.kseniasecurity.com.*
The FAQ section of the site provides numerous videos showing the device's programming. ***basis*** introduces innovation because it is based on the most modern technologies. Thanks to JAVA™ support, ***basis*** can be installed on any computer running Microsoft operating systems, Apple, Linux or Oracle; does not require enormous computing power nor third-party software[1].
basis has been developed considering the needs of those who use it, the installer of security systems, the end user of the system, the monitoring stations: each person will have only what it needs. ***basis*** ensures complete Ksenia device programming and real-time control, all distributed under a free license, then free to download.

GENERAL STRUCTURE OF THE SOFTWARE

basis is modular and based on a main engine and expansion modules installed and updated, each independently. Once installed, the SOFTWARE will update automatically without the need for manual intervention, pitiful uninstalls of software packages and complicated tricks to ensure full backward compatibility. Handling of the variouse features of the software is possible thanks to a graphical interface that is common to all modules and consists of a system of floating windows.
basis allows to program all Ksenia Security products in one platform, binding the devices to the customer from whom you made the installation. When opening a session on a client, a summary of what is installed and how it is programmed is immediately presented, without the need to open several programming softwares. All features are accessible through two control bars available on software: 'Main' and 'Windows'.
To move a window, simply drag it by holding down the left mouse button on the bar top. Moving on the screen a red dashed line will indicate the new location that will take the window as soon as the left mouse button is released.

1 In future, will be available versions for last generation smartphones

MAIN MENU AND WINDOWS MENU

figure 1

At the top you can distinguish the two main sections in which the SW is divided: 'Main' and 'Windows' (figure 1). By activating the 'Main' tab a menu pops up, with icons that allows logical browsing, activating the 'Windows' tab pops up a menu that allows the activation of disabled windows.

MAIN MENU

The Main bar (figure 2) is divided into several sections within which various functions are grouped into logical units allowing customer and programming pages management.

figure 2

CUSTOMER

NEW CUSTOMER
The 'New Customer' button opens the programming window for a new customer, that will be added to the list of customers on the software.

REFRESH LIST
The 'Refresh list' button is used to refresh the customers list.

EXPORT DATA TO FILE
The 'Export data to file' button saves the customer's programming on a single file. This button is enabled only in the customer's management window.

IMPORT DATA FROM FILE
The 'Import data from file' button allows to import a customer's programming from a file previously created with the 'Export data to file' button. Use this procedure to move the programming data from one PC to another or create a new configuration starting from a previously prepared programming.

SAVE
The 'Save' button allows to save the customer's settings on the database software.

FIRMWARE UPDATE
The 'Firmware Upgrade' button opens the window from which you can upgrade the firmware of the connected devices or KS-BUS peripherals (which can be put up to date without the need of changing the system wirings or configuration). First you have to select whether you want to update a device connected to the PC and listed in the 'Serial ports and devices connected' list, or if you want to prepare your file to be saved on a USB flash drive in order to connect it to the device you want to update. By pressing the next button you can select the device you want to update, where is also shown the latest firmware revision available. Performing updates to ***basis*** the PC will also be updated with the latest firmware released for each device in the list. The firmware update requires a few seconds to from a few minutes depending on the currently selected device

DEVICE DATA

ADD
The 'Add' button creates a new item in the active window, in example if we are in the 'Phonebook' page, by pressing this button we will be able to add a new number in the phone book. If we are in the 'Zone' page we can add a new zone, and so on. It can be used in place of the buttons in 'Palette'.

DELETE
The 'Delete' button clears the item selected in the active window; in example if we are in the 'Phonebook' page by clicking this button the selected contact will be deleted. If we are in the 'Zone' page we will remove the selected, and so on.

REFRESH
Use this button to refresh the current view of the active window.

TEMPLATES
This button allows to toggle from the simplified programming to the total one and vice versa.

COMMUNICATION

LOAD ALL

SEND ALL

The 'Load all' and 'Send all' buttons uploads/sends all programming to devices. These two buttons are also available in the 'Navigator' window.

LOAD PAGE

SEND PAGE

The 'Load page' and 'Send page' buttons loads/sends the entire displayed page to the device (example Phonebook).

LOAD

SEND

The 'Load' and 'Send' buttons loads/sends only the selected item to the device (example a Phonebook number).

WINDOWS MENU

The 'Windows' bar (figure 3) contains buttons allowing the user to enable the main windows of the software. To activate a window just click with your mouse on the corresponding button.

figure 3

WINDOWS

CUSTOMER LIST
The 'Customer list' window allows control of customers and allows the database management. Using this window you can create, edit, delete and manage customers by clicking with the right mouse button on the customer name. Double clicking on the customer name will open the programming overview, called 'Customer manager'.

DETAILS
This window shows the programming details of the selected event.

PLUGPLAY
This window shows the devices connected to the PC and detected by the platform. Displays the communication port (serial port), the connected device, the customer code associated with the database, the description that allows us to identify different products and firmware Version of the device.

WELCOME
In this window are presented the main functions of the software and the latest news in the Ksenia world.

UTILITIES

PALETTE
The 'Palette' offers the major common components of the current device. Simply drag the desired item in the main window to insert it into the programming data.

OUTPUT
Debug trace window (generally not of interest to the user but only for SW maintenance).

PROPERTIES
Debug trace window (generally not of interest to the user but only for SW maintenance).

NAVIGATOR
The 'Navigator' allows you to navigate quickly through the various programming screens of the currently selected device. The navigation buttons are only displayed when a device has been selected, in all other cases, the window is blank and shows a 'No available view' message, because no device is selected. When active, just double click on an item to access the relevant page. To send (upload) all programming to the *lares* or other connected devices use the button 'Send all' ('Load all')

DOCUMENTATION
The button opens the folder on your computer in which the manuals have been copied during installation of SW.

OPTIONS

The 'Options' window enables you to manage the advanced options of the software:
inside the 'communications' tab you can disable automatic detection of devices connected to the PC ('enable PlugPlay') or modify the parameters of communication speed. These parameters can be modified if thereare issues communicating with the device.
Inside the 'vocal synthetizer' tab you can select the default text-to-speech engine in automatic generation of voice messages. ***basis*** includes a free text-to-speech engine. Loquendo TTS[2] entries will be also displayed if a Loquendo USB key is connected to the PC.

CHECK FOR UPDATES

The 'Check for updates' button enables to check if there are any software updates. Performing updates requires that the PC is connected to Internet[3]. Simply follow the instructions shown on the screen to keep ***basis*** constantly up to date.

PLUGINS

The 'Plugins' folder contains settings for managing ***basis*** software modules and update management: the 'Available Plugins' tab shows the available and not installed software modules.In order to install a new module, select it and press the "install" button. In the 'Installed' tab you can manage your currently installed modules, checking the status, features and eventually disable it. The settings menu shows a link to the software update Center (you should not edit this parameter), and you can change the update checking settings.

INFORMATIONS

The 'Information' button opens a window with the version of SW and SW related additional information.

2 LOQUENDO TTS it is a LOQUENDO S.p.A trademark. More information about Loquendo TTS functionality is available in the manual on the USB flash key containing the license for use of the product

3 Specifically, it requires that your PC will be able to reach the site www.kseniasecurity.com also indirectly through access to a LAN.

CREATING A NEW ACCOUNT AND STARTING THE PROGRAMMING

To create a new customer, simply press the button 'New customer' and insert the appropriate data in relative window (figure 4). Once created, the customer record is inserted in the list, and you can optionally edit the data by pressing the right mouse button on the name.

Double clicking opens the 'Manage account' window; in this window you can associate to the client the devices that will be installed in the system (figure 5).
Once you have selected your device, simply press the 'Next' button and then assign a name to the device itself, which will identify and upload data conveniently in subsequent links.
By pressing the button 'Finish' it creates the device with its programming menu (figure 6).

To open a programming page simply double-click on the entry of the menu that you want to open (partitions, arming modes, etc.). The 'Navigator' will be automatically activated to allow you to move on several pages of programming without having to return to the 'manage account'.

figure 4

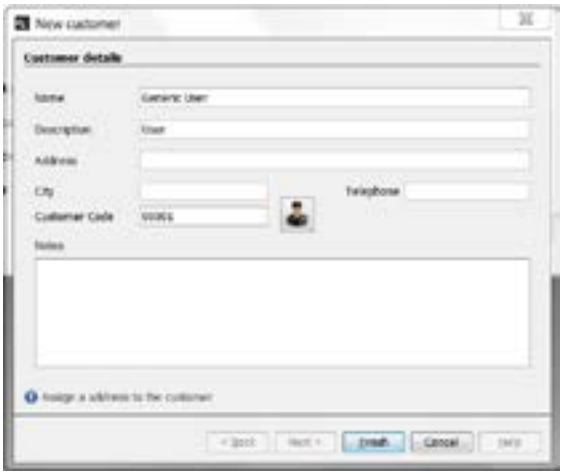
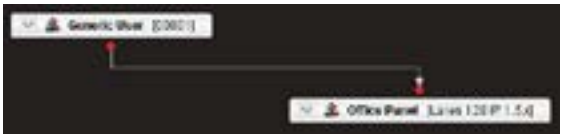


figure 5



lares series have a very similar programming between the various models, here is expressly indicated when some features are referable only to certain models. The software allows you to create the zones (or outputs), determine where they phisically are located (e.g. mainboard zones, keypad zones, ...), and then program the 'Scenarios'. Scenarios are a set of actions that the panel performs when a particular event occurs, as a zone alarm (or partition). For each event you can program a maximum of 8 output activations, maximum 8 power outputs, maximum 8 switching outputs, activate up to 2 timers, activate the voice Communicator, SMS or email, or perform system arming.

figure 6

DESCRIPTION OF PROGRAMMING PAGES

The Window bar (figure 3) contains buttons that allow you to enable the main Windows of the software. To activate a window just click with your mouse on the corresponding button. We'll explore the available windows in detail.

HARDWARE

PARTITIONS

On this page you can set the parameters for the partitions in the system. To add a new partition just press the 'Add' button. Let's see in detail each programmable field.

LABEL

The label is the name associated with the partition. This is used as a partition identifier in the programming pages, as a string by mail or SMS dialer and automatic generation of voice messages. Moreover, this label is displayed in the event log (logger).

AUTOMATIC MEMORY RESET

By selecting this option, when you disarm the partition any alarm memory will be automatically removed.

DELAYS SECTION

ENTRY

Time (in seconds) before the panel generates an alarm when violating a delayed input zone enabled on this partition.

In order to maintain compliance with the norms listed on page 73 maximum input time should not exceed 45 sec.

EXIT

Output time (in seconds) during which the zones programmed as delayed in output even if violated will not generate any alarm.

WARNING

Time (in minutes) before the system is armed according to the scheduler, during which the imminent arming is reported by beeps on keypads.

In order to maintain compliance with the norms listed on page 73 this option should remain selected

PATROL

Time (in minutes) starting from a disarm of the system with patrol attribute with a code (key). When this time expires the partitions will be automatically armed back.

NEGLIGENCY

Time (in hours) starting from partition disarming. If the partition is not armed when the time expires, it generates the 'Partition Negligence' event that can be associated with actions (e.g. could be programmed to 24h to manage any error or arming omission and thus allow the panel to automatically arm)

CYCLE

Time (in minutes) that determines the maximum duration of the alarm cycle. During the alarm condition, *lares* does not generates further alarms in partition, and eventually generates an alarm event for each zone in partition. This avoids the queue of numerous phone calls or reports.

LINKED EVENTS SECTION

This section provides a list of events related to the selected partition. Selecting one or more events you can program the actions from the 'Details' window. The planned actions will be executed upon the occurrence of the event. Refer to the paragraph 'Scenarios' for programming details.

ARMING MODES

In this page it is possible to program the arming modes, associable to the events in the 'Scenarios' page or to numeric keys of the ***ergo*** LCD keypad or volo reader. Just press the 'Add' button to insert a new arming mode.
Depending on the system model, up to 64 different arm methods can be defined.

In case of zones in alarm, arming the system will be possible only excluding these zones. The arming will not, under any circumstances, be possible in case of tamper/fault events.

MODE

Is the description that you want to give to the arming mode, used as a label in the other pages and displayed on the ***ergo*** keypad when the mode is active.
To add a new arming mode just press the button 'Add'.
Default basic programming already includes three predefined modes: total arming of all partitions, total disarming and night mode (partial arming).
For each arming mode you can define the state each partition will be put in when the mode is enabled. To change a mode programm, simply move in the mode/partitions grid up to the cell that you want to edit, and click the left mouse button to get the desired programming. If you want to modify the programming of all partitions for a particular arming mode just click the button to the left of the description. The 5 possible States are:

NO ACTION

When the mode is enabled, the partition status is not changed.

ARM WITHOUT DELAYS

When the mode is enabled, the partition in armed and both of imput and output delays are reset.

ARM WITH DELAYS

When the mode is enabled, the partition is armed but input and output delays are valid (for the delayed zones of partition only).

DISARM

When the mode is enabled, the partition is disarmed.

TOGGLE

When at least one partition is armed it disarms all partitions. When all partitions are disarmed, inserts them all.

ZONES

On this page you can program the parameters relating to the Zones. To program a zone, press on the 'Add' button or drag the corresponding icon from the 'Palette' programming page. Let's see in detail each programmable field.

ZONE TYPE

Identifies the type of zone you want to use. Can be configured in the following ways:

WIRED
Wired zone

WIRELESS UNUM
Zone assigned to the ***unum wls*** indoor motion detector

POLI / NANUS MAGNETIC CONTACT
Zone assigned to the ***poli*** or ***nanus*** wireless magnetic contact

AUXILIARY ZONE ON POLI
Auxiliary zone assigned to the ***poli*** wireless magnetic contact

WIRELESS NEBULA
Zone assigned to the ***nebula*** wireless smoke detector

PROCESSING MODE

Select the zone type, which determines the type of signal analysis. Available in standard, roller blind, inertial (for glass break sensors), command (if you do not want to use the area to generate alarms but only to enable scenarios) or analog (to connect sensors with analog output 0-10V).

NOTE
1. To test the operation of the shutter-type and inertial sensors, taking into consideration the rapidity of the pulses generated by the sensors themselves, we recommend that you test the system, instead of using the 'real time'.
2. To program a command zone, associate it to the partition that will arm/disarm, then associate the arming mode to the 'real-time of zone' corresponding event in the 'Scenario' page.
3. Analogic zones may be attached only to Terminal 1 of auxi expansion modules. Analogic zones do not generate alarms or tamper, but events associated with the input voltage level.

In order to maintain compliance with the norms listed on page 73 the 'Command' and 'Analogic' options should not be selected.

ARM MODE ON ACTIVATION

If you selected the processing mode 'command' you can use this menu to select the arm mode to execute at the moment of the zone violation.

In order to maintain compliance with the norms listed on page 73 cannot be selected no insertion mode.

ARM MODE ON RESTORAL

If you selected the processing mode 'command' you can use this menu to select the arm mode to execute when the zone comes back in stand-by.

In order to maintain compliance with the norms listed on page 73 cannot be selected no insertion mode.

LABEL

The label is the name that is associated with the zone. This is used as the identifier in the programming pages, as a string by mail or SMS dialer and automatic generation of voice messages. Moreover, this label is displayed in the event log (logger).

BALANCE

The choices are 'Normally Open', 'Normally Closed', 'Balanced (10K)', 'Double balance - Parallel (2 x 10K)', 'Double balance - series (2 x 10K)', 'Triple balance (3 x 10K)', 'Tamper single balance (10K)', 'Fault single balance (10K)' and 'Custom'.
Selecting the last option, you can customize the thresholds and the bands.
Please refer to the panel manual for details on wiring and thresholds. In the case of analogic zones you cannot select the type of balance, but there are 4 programmable thresholds that determine 5 levels. Depending on the value of the input voltage the event corresponding to the level to which it belongs is generated.

In order to maintain compliance with the norms listed on page 73 'NC' and 'NO' options must be excluded.

PARTITIONS MASK

Assign the zone at least at one partition, the association makes it possible to arm/disarm a zone (when the associated partition is armed/disarmed), assign delay times to a zone. If a zone belongs to multiple partitions, it raises the alarm only if all partitions to which it belongs are armed.

BYPASS MODE

BYPASSABLE

When this option is selected, the user will be able to bypass the zone. A bypassed zone does not report alarms. Tampers and faults/masks will continue to be reported.

UNBYPASSABLE

If this option is selected the user will not be able to bypass the zone.

AUTO-BYPASSABLE

If this option is selected, the zone is automatically bypasses if it is violated when arming. The auto-bypass does not exclude tamper and masks. The zone is automatically un-bypassed on next disarm.

In order to maintain compliance with the norms listed on page 73 this option must be used only with the scheduler.

AUTO-UNBYPASS

If this option is selected, the zone is automatically bypassed if violated when arming. As soon as it comes back to stand-by it is automatically un-bypassed.

In order to maintain compliance with the norms listed on page 73 this option must be used only with the scheduler.

ATTRIBUTES

CHIME

If this option is selected, when the zone is violated with disarmed partitions, it generates beeps for 5 seconds on all the keypads enabled on the same partitions.

ALWAYS ACTIVE

If this option is selected, when the zone is violated, an alarm will be generated regardless of the arming of the partitions associated with the zone.

TEST

If this option is selected, the zone will only generate events in the log without generating any alarm.

PIR ALWAYS ACTIVE

Only on 'wireless unum' zones

If this option is not selected, the sensor detects any movement only when the system is armed, activating this option the analysis performed by the sensor detection is always active. Option to use in case you want to use the unum wireless sensor in home automation applications. After arming there might be a maximum delay of 30 seconds before the sensor is fully operational.

STANDARD INTENSITY OF THE SIGNAL

Only on 'wireless unum' zones

Normal Immunity

HIGH INTENSITY OF THE SIGNAL

Only on 'wireless unum' zones

If this option is selected it introduces an higher immunity threshold in the detection analysis.

ENTRY/EXIT LOGIC

picture 7

Figure shows an hypothetical situation of entry into a dwelling at which the control panel of the system is accessible only after intercepting some zones. Specifically the volumetric sensor marked with 0 must be the first to be violated to not raise an alarm, then followed by the number 1 and number 2 in this exact order.

Warning: the above also applies if the zones belong to different partitions provided that you have programmed at least one arming mode which arms them all.

ENTRY DELAY

Select this option if you want that violating that zone starts the entry delay (or if this is already started, will not generates the alarm).
You can establish a path of entry on multiple levels, programming the input level parameter.
For example, with armed partitions, planning three levels has the following behavior:
• When entry delay in active you can break only one-level zones above the last zone violated.
• When entry delay in NOT active you can break only level 0 zones; the first violation starts the delay.

EXIT DELAY

Select this option if you want the zone not to generate alarms when the exit delay time is active.

LAST EXIT

Is the last zone on exit path, when it is violated and then restored during the exit delay time, it automatically resets it.
Referring to Pic. 7, zones marked with 0, 1 and 2 must be marked as 'exit delay' and the 0 one marked as 'last exit'.

NUMBER OF PULSES

Number of pulses required before the zone alarm is raised, this is standard pulses in case of 'Standard' or 'Command' zone, fast pulses in case of 'Shutter' or 'Inertial' zone. In the case of ''wireless unum' zone, this value can take only values 1-2 or 3-4 and will act on the detection sensitivity of the sensor.

PULSE LENGTH

Single alarm pulse duration. This value determines the amount of time that the zone must be violated before a valid pulse is generated, and valid for all processing modes. For example, if we program a zone as 'Shutter', the alarm will be generated if there are a number of fast pulses programmed (movement of the shutter) or if the contact remains open for the programmed time in this window (security wire cutting). In the case of programmed zone as 'Shutter' by setting this to 0 will make only quick analysis of impulses, and not generate alarm if the contact remains open.

ALARM WINDOW

Window within which the number of programmed impulses must occur. In the case of ''wireless unum' zone, this attribute indicates the minimum time interval between the detection of two consecutive alarms. Increasing this interval of time it is possible to increase the battery life of the sensor.

ALARM CYCLES

Number of alarm cycles that can be generated by the zone. Alarm cycles are reset at each zone arming.

INACTIVITY

If the zone is never violated for the programmed time (in minutes) the zone masking event will be generated (passive control of masking).

PERIPHERAL AND TERMINAL

This section displays the device associated to the zone and the terminal where the sensor must be physically connected.

LINKED EVENTS

This section provides a list of events related to the selected zone. By selecting one or more events is possible to program the actions from the 'details' window. The planned actions will be executed upon the occurrence of the event. Refer to the 'Scenarios' paragraph for programming details.

AND ZONES

On this page you can program the structure of AND zones. Putting zones in AND among them means that alarm will be generated only if all parts that belong to the structure are violated. To add a zone in AND structure press the 'Add' button or drag the corresponding icon from the 'Palette' in programming page. For each structure there can be programmed two zones ('**First zone**' and '**Second zone**') or three (also using the '**Third zone**' field).

TIME WINDOW

Time, in seconds, during which the violation must occur for the two (or three) planned zones in the structure so that they actually raise the alarm.

MAJORITY

This option is valid only if you have programmed in three zones, selecting, it is sufficient that two out of three zones are violated in order to raise the alarm.

SEQUENTIAL

If this option is selected, zones must be violated in an exact sequence in order to generate the alarm (first, second and possibly third zone)

OUTPUTS

On this page you can program the parameters relating to outputs. To program an output press the 'Add' button or drag the corresponding icon from the 'Palette' to the programming page. Let's see in detail each programmable field. Aside from the 1A relay with double Exchange, all outputs are Open Collector (transistorized) 500 mA

LABEL

The label is the description that you want to give to the output, will be used as identifier in other programming pages.

MODE

MONOSTABLE

Is an output that turns on for a programmed time (ON time) upon the occurrence of the event and then automatically return in stand-by.

BISTABLE

Is an output that follows the status of the corresponding event or can be triggered by an event and disabled by another.

POLARITY

NORMALLY OPEN

Select this option if you want the output in stand-by mode when it's open and closes electrically grounded when it's closed (negative to give).

NORMALLY CLOSED

Select this option if you want the output in stand-by mode when it's electrically closed to ground and active when it opens (negative to send)

ANALOG

Select this option if you want the output to generate a voltage between 0 and 10V (maximum current of 20mA) when enabled. The voltage is 0V when output is in stand-by. Program the output voltage with the cursor in the section 'Analog Value'.

NOTE
The analogue outputs can be mapped only to terminal 5 of ***auxi*** expansion modules.

TIMES

ON TIME

Time, in seconds, for which an output programmed as MONOSTABLE remains active in the occurrence of an event.

CYCLE TIME

Is the sum of ON time plus a minimum time for which you want to keep the output off.

REMOTE CONTROL

Select this option if you want to control the output manually.

CONTROLLED

This option is valid only for the relay output. If enabled the Terminal +A needs the end of line resistor. The end-of-line resistor must have a value of 10KΩ. In case of tampering the event 'Controlled output tamper' is generated.

PERIPHERAL AND TERMINAL

This section displays the device associated to the output and terminal on which the output must be physically connected.

EVENTS MANAGEMENT

Events acting on the output status are listed in 'Activated by', 'Deactivated by' and 'Toggled by' boxes. To add a new event in one of these boxes, simply drag it from the 'Details' window. To delete an event from a box, double click the event you want to delete. By pressing the button 'Clear events' you can clear all events that act on the output.
The association of outputs to events can also be made from the 'Scenarios' page (see following paragraphs).

PERIPHERALS

On this page you can define system hardware configuration, add peripherals, their attributes and assign the input output terminals functionalities. A physical terminal can be assigned to a zone (earlier defined), or to an OC output, or left unused[4].

MOTHERBOARD

The first part of the programming tree is the Motherboard terminals configuration. Let's see its programmable parameters.

ZONES

i1..i6 TERMINALS

Inputs only
Program logic zones to be assigned to the terminals named i1...i6 on the motherboard.

M1..M4 TERMINALS

Inputs/Outputs
Program logic zones or outputsto be assigned to the terminals named M1...M4 on the motherboard[5].

VIRTUAL KEYPAD

The virtual keyboard is used during remote operations (e.g. via telephone or web-server).

MACRO FUNCTIONS

DESCRIPTION
Enter a description that you want to give to the scenario associated with the key, which will be used as a label in the other pages, shown in the events log, used as the SMS Dialer strings and used in the generation of voice messages.

ARM REQUEST
You can bind to the desired arming mode. Select **Enabled** if you want to activate the corresponding button. The rest of operations (ouputs activations, timers, etc) must be programmed in the 'Scenarios ' page (see following paragraphs)

PARTITION MASK
The Partition Mask can also be programmed for the Virtual Keypad, it defines the partitions on which the virtual keypad will operate.

4 Basically in our system we could have more physical zones (intended as terminals) than logical areas (which in the case of lares 128-IP are 128) as there may be unused physical areas.

5 If a terminal is assigned to a zone, obviously cannot be assigned output function.

BUS PERIPHERALS

gemino GSM COMMUNICATOR

A ***gemino BUS*** Communicator can be added to the system. To add a ***gemino***, drag the corresponding icon from the 'Palette' to the programming page or select it by pressing the 'Add' button in the main menu.
Let's see its programmable parameters.

LABEL

The label is the description that you want to give to the communicator and will be used as a label in other programming pages, shown in the events log and used as a string for SMS or e-mail alerts. Each device on the BUS (hence also the ***gemino*** GSM communicator) is identified by a serial number with 6 digits. If this number is known we can add it in the 'Serial number' field. If this number is not known, you can check on 'Assign serial number from keypad' and then, from the ***ergo*** installer menu, you can assign to this programming a serial number of a device connected to the KS-BUS.

ENABLE SIM #2

Select this option if there are two SIM cards installed on ***gemino***.

ENABLE EXTERNAL ANTENNA

Select this option if an external antenna is wired on ***gemino***.

DISABLE INTERNAL ANTENNA

This option is meaningful only if you have selected 'Enable external antenna'. Select this option if you don't want the device to use the internal antenna in case of GSM signal issues (for example, if you put ***gemino*** inside a metal box)

VOCAL MENU

Enable activation of voice guided menu, in case the number of the SIM is called. Through this tool the user can control the panel after entering a valid user code.

JAM DETECTION

Select this option if you want ***gemino*** signals any noise on RF carrier of GSM that prevent communication.
Network parameters, credit control and expiration can be programmed for each SIM CARD.

INGOING GPRS DATA PORT

This parameter is required only if ***gemino*** is programmed to remotely manage the system via GPRS.
For more information, please refer to the 'REMOTE ASSISTANCE' paragraph.

OUTGOING GPRS DATA PORT

This parameter is required only if ***gemino*** is programmed to remotely manage the system via GPRS.
For more information, please refer to the 'REMOTE ASSISTANCE' paragraph.

DYNAMIC DNS SETTINGS

In this section parameters for configuring a server that handles dynamic DNS are programmable. For more information refer to the paragraph "DYNAMIC DNS".

SIM OPTIONS

By selecting one of the available SIM you can view the options regarding the SIM itself.

CREDIT CHECK

CHECK INTERVAL
Is the maximum time, in days, between two credit checks. The device however, checks, the credit after every phone call and every 10 SMS sent.

CHECK THRESHOLD
Is the threshold (expressed in Euro or in local currency) below which ***gemino*** generates the warning of credit deficiency and performs the switching of SIM (if there are two SIM).

GSM SERVICE PROVIDER
Select an operator from among those proposed to enable the credit check.

DESTINATION LIST
Select Phonebook numbers that will receive reports of residual credit and SIM expiry. To add an entry, press the green button. Up to two recipients can be added.

EXPIRATION CHECK

SIM EXPIRY DATE
Insert the SIM expiry date.

PERIOD
Is the time, in days,in which the deadline is stretched at each SIM recharge. If set to zero, the SIM expiry check is not performed.

GPRS OPTIONS

APN SETTINGS
Is the access point to the GPRS network (this parameter is provided by GSM/GPRS operator).
This parameter is required only if ***gemino*** is programmed to remotely manage the system via GPRS. For more information, please refer to the 'REMOTE ASSISTANCE' paragraph.

ergo LCD KEYPAD

ergo LCD keypads can be programmed in the system. To add an ***ergo***, drag the corresponding icon from the 'Palette' to the programming page or select it by pressing the 'Add' button in the main menu.
Let's see its programmable parameters.

LABEL

The label is the description that you want to give to the keypad and will be used as a label in other programming pages, shown in the events log and used as a string for SMS or e-mail alerts. Each device on the BUS (hence also the ***ergo*** LCD keypad) is identified by a serial number with 6 digits. If this number is known we can add it in 'Serial number' field. If this number is not known, you can check on 'Assign serial number from keypad' and then, from the ***ergo*** installer menu, you can assign to this programmation a serial number of a device connected to the KS-BUS.

BACKLIGHT

In this section, you can adjust the level of backlighting of the keypad. Select the 'Eco' mode if you want the keypad backlight disabled in stand-by.

VOLUME

In this section, you can adjust the volume level of keypad speaker.

M1..M2 TERMINALS

ZONE/OUTPUTS

Programming logical zones or outputs to be assigned to the terminals indicated on your keypad with the name M1...M2. If a Terminal is assigned to a zone, it obviously cannot be assigned output function.

IDLE INFORMATION

Information displayed on the keyboard in idle state:

Date and Time: enables/disables the display of the date and time on the second line of the display.

GSM service: enables/disables the display of the operator and of the GSM signal on the second line of the display (if a ***gemino*** GSM Communicator is configured on your system).

External temperature: enables/disables the display of the outdoor temperature on the second line of the display (if at least one ***imago*** siren is configured on your system)

Internal temperature: enables/disables the display of the indoor temperature on the second line of the display (if at least one ***radius*** siren is configured on your system)

Arming status: enables/disables the display of the arming status on the second line of the display. In addition, enabling this option you can see the armed partition details by pressing '**#**' when the keyboard is in idle state.

Violated zones: enables/disables the display that indicates whether the system is ready for arming on the second line of the display. In addition, enabling this option you can see the detail of violated zones by pressing '*****' when the keypad is in idle state.

Show warnings with PIN: If this option is selected the first row of the keypad does not show the system status (SYSTEM OK, ALARM, TAMPER, etc.) until you enter a valid PIN.

In order to maintain compliance with the norms listed on page 73, the option 'Violated zones' and the option 'Arming starus' must be disabled. In addition, the option 'Show warnings with PIN' must be enabled.

ACOUSTIC FEEDBACK

Select which acoustic alerts you want to enable. You can freely select the different options according to your needs.

EXIT TIME

Select this option if you want to enable acoustic warning on the keypad during the exit time.

In order to maintain compliance with the norms listed on page 73, this option must be enabled.

PREALARM

Select this option if you want to enable acoustic warning on the keypad during the entry time.

In order to maintain compliance with the norms listed on page 73, this option must be enabled.

WARNING

Select this option if you want to enable acoustic warning on the keypad during the time of notice (arming with scheduler).

In order to maintain compliance with the norms listed on page 73, this option must be enabled.

CHIME

Select this option if you want to enable acoustic warning on the keypad associated with chime attribute zones.

NEW SOUNDS

Select this option to set the short sounds (1 beep every 5 seconds) during the input and output time, rather than the continuous beeps.

CAPSENSE SENSITIVITY

In this section you can set the sensitivity for detecting key touches.

MACRO FUNCTION

DESCRIPTION

Enter the description that you want to give to the scenario associated with the key, which will be used as a label in the other pages, shown in the events log, and used as the SMS Dialer string.

ENABLED

You can bind a key to the desired arming mode. Select '**Enabled**' if you want to activate the corresponding button with PIN entry, select '**No PIN**' if you want to enable the function without putting the PIN, but simply pushing for three consecutive seconds the corresponding key on the keypad (macro function). The rest of the parameters (outputs activations, timers, etc) have to be programmed in the 'Scenarios' page (see following paragraphs).

DISABLE AUTOMATIC SCENARIO EXECUTION

When you digit a PIN, the keypad runs the shown scenario after 3 seconds, if you do not press any key. Select this option if you don't want the automatic execution.

PARTITION MASK

Assign the partitions on which the keypad can operate.

auxi EXPANSION MODULES

auxi expansion modules can be added to the system. The number of programmable expansion modules depends on the Panel model. To add an expansion module, drag the corresponding icon from the palette to the page or select it by pressing the 'Add' button in the main menu.
Let's see its programmable parameters.

LABEL

The label is the description that you want to give to the expansion module and will be used as a label in other programming pages, shown in the events log and used as a string for SMS or e-mail alerts. Each device on the BUS (hence also the *auxi* expansion modules) is identified by a serial number with 6 digits. If this number is known we can add it in 'Serial number' field. If this number is not known, you can check on 'Assign serial number from keypad' and then, from the ***ergo*** installer menu, you can assign to this programmation a serial number of a device connected to the KS-BUS.

M1..M5 TERMINALS

ZONES/OUTPUTS
Programming logical zones or outputs to be assigned to the auxi terminals indicated with the name M1..M5. If a Terminal is assigned to a zone, obviously it cannot be assigned output function.

pontis PSTN COMMUNICATOR

A ***pontis*** PSTN Communicator can be added to the system. To add a Communicator, drag the corresponding icon from the palette to the page or select it by pressing the 'Add' button in the main menu.
Let's see its programmable parameters.

LABEL

The label is the description that you want to give to the communicator and will be used as a label in other programming pages, shown in the events log and used as a string SMS or e-mail alerts. Each device on the BUS (hence also the ***pontis*** PSTN Communicator) is identified by a serial number with 6 digits. If this number is known we can it in 'Serial number' field. If this number is not known, you can check on 'Assign serial number from keypad' and then, from the ***ergo*** installer menu, you can assign to this programmation a serial number of a device connected to the KS-BUS.

RINGS

Program the number of rings that the Communicator must be held to answer incoming calls (if vocal menu is enabled)

BYPASS ANSWERING MACHINE

By selecting this option the device will answer to phone calls only if a ring is detected, and then stopped. Allows you to interact with the panel if it is installed on the same line as other devices that answer to calls automatically (e.g., fax).

DISABLE TONE CHECK

Selecting this option will override the controls that the device makes before initiating an outbound call. This allows you to interact with the panel if there were other devices that use the phone line (e.g. exchanger).

VOCAL MENU

Enables the activation of vocal guided menu by calling the telephone number associated with the ***pontis***. Through this tool the user can control the panel after entering a valid user code.

DO NOT CALL ON PSTN FAULT

If this option is selected, if the ***pontis*** detects the phone line failure phone calls will not be executed and the event 'Communication Failed' will be generated.

imago OUTDOOR SIREN

imago outdoor sirens can be added to the system. The number of programmable sirens depends on Panel model. To add a siren, drag the corresponding icon from the palette to the page or select it by pressing the 'Add' button in the main menu.
Let's see its programmable parameters.

LABEL

The label is the description that you want to give to the siren and will be used as a label in other programming pages, shown in the events log and used as a string for SMS or e-mail alerts. Each device on the BUS (hence also the ***imago*** outdoor siren) is identified by a serial number with 6 digits. If this number is known we can insert it in 'Serial number' field. If this number is not known, you can check on 'Assign serial number from keypad' and then, from the ***ergo*** installer menu, you can assign to this programmation a serial number of a device connected to the KS-BUS.

OUTPUTS

BUZZER AND LAMP

The siren is handled by the system as an output. To activate both light and acoustic signaling we will assign an output in the 'Buzzer and Lamp' window. When this output is activated (such as when an alarm event raises) the siren starts sounding and flashing.

ONLY LAMP - ADDITIONAL LEDS

Outputs can also be assigned to the blinker only (**Only Lamp**) and auxiliary signalling LEDs (**Additional Leds**). These can be programmed, for example, to report the arming status.

MAXIMUM ALARM TIME

Maximum time of activation of acoustic signal and siren light for cutting wires.

DUAL-TONE BUZZER

If this option is selected, the acoustic signal is performed by means of a sound with two separate frequencies, if unchecked it instead sweeps the frequency.

BUS CONTROL

If this option is selected, the siren will emit an acoustic signal if there is no communication with the Panel for longer than 10 sec.

TEMPERATURE

THRESHOLD CHECK

The siren integrates a temperature sensor, which allows to measure the outside temperature. By enabling this option you can raise an event if the measured temperature is lower than the '**Low temperature threshold**', an event if the temperature is above the '**High temperature threshold**' and an event if the temperature is between the two thresholds.

DISABLE TEMPERATURE SENSOR

If this option is selected, the siren does not send the temperature and is not used for displaying outdoor temperature on keypad (this is useful if there are two sirens, and one of these is installed in a sunny position, distorting the outdoor temperature measurement).

radius INDOOR SIREN

radius indoor sirens can be added to the system. The number of programmable sirens depends on Panel model. To add a siren, drag the corresponding icon from the palette to the page or select it by pressing the 'Add' button in the main menu.
Let's see its programmable parameters.

LABEL

The label is the description that you want to give to the siren and will be used as a label in other programming pages, shown in the events log and used as a string by SMS or e-mail alerts. Each device on the BUS (hence also the *radius* indoor siren) is identified by a serial number with 6 digits. If this number is known we can insert it in 'Serial number' field. If this number is not known, you can check on 'Assign serial number from keypad' and then, from the ***ergo*** installer menu, you can assign to this programmation a serial number of a device connected to the KS-BUS.

OUTPUTS

BUZZER AND LAMP

The siren is handled by the system as an output. To activate both light and acoustic signaling we will assign an output in the 'Buzzer and Lamp' window. When this output is activated (such as when an alarm event is fired) the siren starts sounding and flashing.

ONLY LAMP

Outputs can also be assigned to the blinker only (**Only Lamp**).

MAXIMUM ALARM TIME

Maximum time of activation of acoustic signal and siren light for cutting wires.

USE EMERGENCY LAMP

If this option is selected, when power failure occurs, the siren turns on the power LED, lighting up a medium sized room. Caution, you must install the lithium battery on the siren to allow operation as emergency light.

LED ALWAYS ON

If this option is selected, activating the associated output in '**Only Lamp**' section, the LED is lit (not blinking).

TEMPERATURE

THRESHOLD CHECK

The siren integrates a temperature sensor, which allows to measure the outside temperature. By enabling this option you can raise an event if the measured temperature is lower than the '**Low temperature threshold**', an event if the temperature is above the '**High temperature threshold**' and an event if the temperature is between the two thresholds.

DISABLE TEMPERATURE SENSOR

If this option is selected, the siren does not send the temperature and is not used for displaying outdoor temperature on keypad (this is useful if there are two sirens, and one of these is installed in a sunny position, distorting the outdoor temperature measurement).

PARTITION MASK

Programs the partitions associated with *radius* siren. When the system is asking to activate the alarm signalling, the siren will activate the acoustic signal only if all partitions that are associated with the siren are armed. This lets not to have the siren sound if people are in the house. If you want the siren to sound independently by the arming mode, do not associate any partition to the siren.

volo PROXIMITY READER

volo proximity readers can be added to the system. The number of programmable readers depends on Panel model. To add a reader, drag the corresponding icon from the palette to the page or select it by pressing the 'Add' button in the main menu.
We see its programmable parameters.

LABEL

The label is the description that you want to give to the reader and will be used as a label in other programming pages, shown in the events log and used as a string for SMS or e-mail alerts. Each device on the BUS (hence also the *volo* proximity reader) is identified by a serial number with 6 digits. If this number is known we can insert it in 'Serial number' field. If this number is not known, you can check on 'Assign serial number from keypad' and then, from the *ergo* installer menu, you can assign to this programmation a serial number of a device connected to the KS-BUS.

IDLE INFORMATIONS

GREEN LED ON

If this option is selected, the green LED will turn on to confirm the system disarm. Otherwise, if you do not select this option the reader will activate the red LED only to confirm the system arming, allowing also for colorblind users to check the system status (LED on/system armed - LED off/ system disarmed).

LED TIMEOUT

Time, in seconds, during which the LED is activated to confirm an operation correctly performed.

TAMPER SENSITIVITY

In this section, you can adjust the sensitivity level of tamper accelerometer.

ARMING MODES AND LED

In this section, you can assign a specific configuration (Arming/Disarming/Scenario) to each available color. The LED of the selected color will be activated to confirm the configured operation.

PARTITION MASK

Assign the partition on which the reader can operate.

divide BUS ISOLATOR / REPEATER

A ***divide*** BUS isolator/repeater can be added to the system. The number of programmable ***divide*** depends on Panel model. To add a BUS isolator/repeater, drag the corresponding icon from the palette to the page or select it by pressing the 'Add' button in the main menu.
Let's see its programmable parameters.

LABEL

The label is the description that you want to give to the BUS isolator/repeater and will be used as a label in other programming pages, shown in the events log and used as a string for SMS or e-mail alerts. Each device on the BUS (hence also the ***divide*** BUS Isolator/Repeater) is identified by a serial number with 6 digits. If this number is known we can insert it in 'Serial number' field. If this number is not known, you can check on 'Assign serial number from keypad' and then, from the ***ergo*** installer menu, you can assign to this programmation a serial number of a device connected to the KS-BUS.

opis SUPERVISED POWER SUPPLY STATION

opis Supervised Power Supply Stations can be added to the system. The number of programmable stations depends on Panel model. To add a supervised power supply station, drag the corresponding icon from the palette to the page or select it by pressing the 'Add' button in the main menu.
Let's see its programmable parameters.

LABEL

The label is the description that you want to give to the Supervised Power Supply Station and will be used as a label in other programming pages, shown in the events log and used as a string for SMS or e-mail alerts. Each device on the BUS (hence also the ***opis*** Supervised Power Supply Station) is identified by a serial number with 6 digits. If this number is known we can insert it in 'Serial number' field. If this number is not known, you can check on 'Assign serial number from keypad' and then, from the ***ergo*** installer menu, you can assign to this programmation a serial number of a device connected to the KS-BUS.

duo BUS WIRELESS TRANSCEIVER

duo BUS wireless transceivers can be added to the system. The number of programmable transceivers depends on Panel model. To add a wireless transceiver, drag the corresponding icon from the palette to the page or select it by pressing the 'Add' button in the main menu.
Let's see its programmable parameters.

LABEL

The label is the description that you want to give to the Wireless Transceiver and will be used as a label in other programming pages, shown in the events log and used as a string for SMS or e-mail alerts. Each device on the BUS (hence also the *duo* BUS Wireless Transceiver) is identified by a serial number with 6 digits. If this number is known we can insert it in 'Serial number' field. If this number is not known, you can check on 'Assign serial number from keypad' and then, from the *ergo* installer menu, you can assign to this programmation a serial number of a device connected to the KS-BUS.

ENROLL WIRELESS DEVICES

Wireless devices enrolling occurs in three steps. Pressing the 'Enroll Wireless Devices' button in 'Peripherals' section it will start a Wizard designed to facilitate this operation.

1. ENROLLING / PROGRAMMING OF duo TRANSCEIVERS (BUS)

1. If you do not have the serial number of the *duo* transceivers (BUS) press 'assign serial' in 'peripherals realtime' section.

2. Proceed in the device programming as specified in the appropriate sections.

2. ENROLLING / PROGRAMMING OF duo REPEATERS

1. If you do not have the serial of *duo* repeaters, put on sabotage the selected device for a few seconds and then put it back in service. Do this for all repeaters.

2. Proceed in the device programming as specified in the appropriate sections.

3. ENROLLING / PROGRAMMING OF WIRELESS DEVICES

1. Enrolling of wireless devices:
   - The Contacts and the Detectors are enrolled on the tamper restore.
   - The Remote Controls are enrolled on the long press of the info button.
   - Smoke sensors are captured as soon as powered them up or pressing the button on the radio module.

2. Proceed in the device programming as specified in the appropriate sections.

WIRELESS PERIPHERALS

duo REPEATER

One or two ***duo*** wireless repeater can be added to the system. To add a wireless repeater, drag the corresponding icon from the palette to the customer manager page or select it by pressing the 'Add' button in the main menu.
After choosing wireless tab, ***duo*** wireless repeater and OK buttons, the programming page will open.

LABEL

In the label field you must write the identifier name for the ***duo*** repeater. It will be used as a call sign in other programming pages, shown in the event log (logger) and used as a string by SMS or e-mail alerts. Each device in the system (hence also the ***duo*** Wireless Repeater) is identified by a serial number with 6 digits. You can insert it in 'Serial number' field or you can check the 'Assign serial number from keypad' box and then, from the ***ergo*** installer menu, you can assign automatically the serial number to the device.

poli / nanus MAGNETIC CONTACT

Up to 64 ***poli*** / ***nanus*** wireless magnetic contacts can be added to the system. To add a wireless magnetic contact, drag the corresponding icon from the palette to the customer manager page or select it by pressing the 'Add' button in the main menu.
After choosing wireless tab, ***poli*** magnetic contact and OK buttons, the programming page will open.

LABEL

In the label field you must write the identifier name for the wireless magnetic contact. It will be used as a call sign in other programming pages, shown in the event log (logger) and used as a string by SMS or e-mail alerts. Each device in the system (hence also the ***poli / nanus*** Magnetic Contact) is identified by a serial number with 6 digits. You can insert it in 'Serial number' field or you can check the 'Assign serial number from keypad' box and then, from the ***ergo*** installer menu, you can assign automatically the serial number to the device.

MAGNETIC CONTACT

Input here the Logic Zone previously programmed, to be associated with magnetic contact.

AUXILIARY CONTACT

Input here, if desired, the Logical Zones previously programmed, to associate to auxiliary contacts. Auxiliary zones are not available on ***nanus*** Micro Magnetic Contact so this section should not be programmed.

SUPERVISION INTERVAL

Maximum amount of time that elapses between two transmissions. If the panel does not receive any data over an interval of twice the supervision interval, it will raise a '**missing peripheral**' event.

unum INDOOR MOTION DETECTOR

Up to 64 ***unum*** wireless motion detectors can be added to the system. To add a motion detector contact, drag the corresponding icon from the palette to the customer manager page or select it by pressing the 'Add' button in the main menu.
After choosing wireless tab, ***unum*** indoor motion detector and OK buttons, the programming page will open.

LABEL

In the label field you must write the identifier name for the motion detector. It will be used as a call sign in other programming pages, shown in the event log (logger) and used as a string by SMS or e-mail alerts. Each device in the system (hence also the ***unum*** Magnetic Contact) is identified by a serial number with 6 digits. You can insert it in 'Serial number' field or you can check the 'Assign serial number from keypad' box and then, from the ***ergo*** installer menu, you can assign automatically the serial number to the device.

ASSIGNED ZONE

Logic Zone previously programmed, to be associated with the detector.

OVERSEEING INTERVAL

Maximum amount of time that elapses between two transmissions. If the panel does not receive any data over an interval of twice that of overseeing, raises a '**missing peripheral**' event.

nebula SMOKE DETECTOR

Up to 64 ***nebula*** wireless smoke detectors can be added to the system. To add a motion detector contact, drag the corresponding icon from the palette to the customer manager page or select it by pressing the 'Add' button in the main menu.
After choosing wireless tab, ***nebula*** smoke detector and OK buttons, the programming page will open.

LABEL

The label is the description that you want to give to the smoke detector and will be used as a call sign in other programming pages, shown in the event log (logger) and used as a string by SMS or e-mail alerts. Each wireless device (hence also the ***nebula*** smoke detector) is identified by a serial number with 6 digits. If this number is known we can insert it in 'Serial number' field. If this number is not known, you can check on 'Assign serial number from keypad' and then, from the ***ergo*** installer menu, you can assign to this programmation a serial number of a wireless device.

ASSIGNED ZONE

Logic Zone previously programmed, to be associated with the detector.

OVERSEEING INTERVAL

Maximum amount of time that elapses between two transmissions. If the panel does not receive any data over an interval of twice that of overseeing, raises a '**missing peripheral**' event.

opera REMOTE CONTROL

Up to 64 ***opera*** wireless remote controls can be added to the system. To add a remote control, drag the corresponding icon from the palette to the customer manager page or select it by pressing the 'Add' button in the main menu.
After choosing wireless tab, ***opera*** remote control and OK buttons, the programming page will open.

LABEL

The label is the description that you want to give to the remote control and will be used as a call sign in other programming pages, shown in the event log (logger) and used as a string by SMS or e-mail alerts. Each wireless device (hence also the ***opera*** remote control) is identified by a serial number with 6 digits. If this number is known we can insert it in 'Serial number' field. If this number is not known, you can check on 'Assign serial number from keypad' and then, from the ***ergo*** installer menu, you can assign to this programmation a serial number of a wireless device.

VIBRAMOTOR

Activates the vibration as confirmation of executed command.

CONFIGURING FUNCTION KEYS

You can configure up to 7 different actions, associated to the keys of wireless remote control. In addition to associate a possible arming previously programmed, you can program the function keys (outputs activation, SMS sending, mails, ...) from the 'Scenarios' page (see following paragraphs).

PARTITION MASK

Assign the partition on which the remote control can operate.

PHONEBOOK

You can enter up to 100 contacts[6] to whom can be sent reports. To add a contact/IP receiver to the phonebook press the 'Add' button, or drag the corrisponding icon from the Palette. Before inserting data, will be asked if you want to add a phone contact or a IP receiver.

NEW CONTACT

NAME

The name associated with the phonebook position.

NUMBER

Phone number (optional). If this field is not programmed, the phonebook position cannot receive SMS or voice calls.

NOTE
Insert the international prefix (e.g. 0039) could affect the proper functioning of the device.

E-MAIL

E-mail address (optional). If this field is not programmed the contact position cannot receive emails.

OPTIONS

CANNOT RECEIVE SMS

Select this option if you don't want the number to be alerted via SMS (for example if it is a landline phone number).

CANNOT RECEIVE VOCAL MESSAGES

Select this option if you don't want the number to receive voice calls.

ENABLE CALLER ID

If this option is selected, the device, in case of incoming calls from this number, raises the corresponding event of 'recognised-caller' but the incoming call is rejected[7].

SEND CONTACT-ID

When this option is selected, the alerts are sent through the Contact-ID Protocol.

PRIORITY ON GSM / PSTN

For each number you can program which communication channel must be used first (priority on GSM or on PSTN). Non-priority channel is automatically used as the reserve.

CONTACT-ID

To send the Contact-ID you need to enter the customer code of 4 digits (usually provided by the Central Monitoring Station). All event codes are preprogrammed.

CUSTOMER CODE

Program the 4 digit customer code for use in the transmission of Contact-ID.

6 The maximum number of configurable contacts depends on the model of the *lares*.

7 This function is particularly useful if you want the simple call coming from a given number can activate a policy (panel arming, closure of a relay, ...) at no cost.

NEW IP RECEIVER

RECEIVER DESCRIPTION

Name associated with the receiver.

RECEIVER ID NUMBER

SIAIP DC09 Receiver identifier, 6 hexadecimal digits maximum.

TRANSPORT ID

SIAIP DC09 identifier for the Panel used with the current receiver, 12 hexadecimal digits maximum.

IP ADDRESS

IP address of Receiver.

PORT

Remote port on which the receiver listens.

PROTOCOL

Application protocol used to format the data field of the transport protocol SIAIP DC09 (Contact-ID, SiaLevel3..)

APPLICATION ID

Panel application protocol identifier (Contact-ID, SiaLevel3) used with the current receiver.

OPTIONS

SIAIP DC09 protocol options.

AUTOMATIC BACKUP
Communication to this receiver, in case of failure, is repeated toward the backup receiver.

PRIORITY ON BACKUP RECEIVER
The communication is sent FIRST to the backup receiver, and repeated, in case of failure, to this receiver.

PRIORITY ON GPRS
When selected, this option sets the priority of the channel GPRS communication instead of the ethernet channel.

USE TIMESTAMP
When selected, this option sets the date and time information on the data package.

TRANSMIT OVER TCP
Sets the use of TCP instead of UDP for sending alerts.

BACKUP

BACKUP RECEIVER

Backup receiver of the current one.

BACKUP PERIOD (S)

Time, in seconds, on which you send notifications to the backup receiver since the main receiver is off.

EVENTS MANAGEMENT

List of events that will be reported to the current receiver. To add a new event to this box simply drag it from the 'Details' windows. To delete an event from this box, double click on the event you want to delete. Pressing the 'Clear events' button will delete all events in this box. Pressing the 'Default' button, a predefined set of events will be added to this box.
The events listed in this box can be also programmed in the 'Scenarios' page (see following paragraphs).

USER GROUPS

On this page you can schedule the activation mode of the user groups (codes and/or keys), associated to the scheduler. There are 4 distinct user groups, activated and deactivated in 16 different programmable mode.

MODE

Description of the user group activation mode, editable with a double click on the desired box. In each mode you can define 3 different states for each user group:

NO ACTION
When the mode is enabled, the group status is not changed.

ENABLED
When the mode is enabled, the group is active and codes/keys are valid.

DISABLED
When the mode is enabled, the unit is off and the codes/keys are not valid.

Any unused groups can be left in the 'No Action' mode. Default basic programming already includes two predefined modes: activating and deactivating of all groups.

NOTE
If you use a PIN code or a key belonging to a disabled group, the system generates the reporting of incorrect PIN.

CODES

In this page user codes can be added. Please, note that here you will just add a new user code, but not the PIN. The PIN will be changed from the keypad. To add a code, press the 'Add' button, or drag the corresponding icon from the Palette.
Using the codes you can restrict operations on the system. There are 3 levels of access:

1. Access by any person (without entering any code).

2. Access by user (entering user codes).

3. Access by the maintainer (entering installer code).

Only 1 installer code is available in the system.
All codes are 6 digits, for a total of 1.000.000 combinations

LABEL

The label is the name associated with the code. This is used as the identifier in the code pages, as a string from the SMS or email dialer and for automatic generation of voice messages. Moreover, this label is displayed in the event log (logger).

GROUP

Choose, if desired, the group associated with the code. If you don't select any groups your code will always be active, otherwise it will be active only when the associated group is active.

PARTITION MASK

Assign the partition on which the code can run.

ENABLED

If this option is selected, the code is active.

MASTER

A master code can also handle the advanced menu on LCD keypad, as well as modify PIN codes and qualifications that are not master too and that have the same partition mask.

PATROL

If this option is selected, the code will make disarming operations, but the partition will automatically be rearmed at the end of the patrol time programmed in the 'Partitions' page.

ARM ONLY

If this option is selected, the code will not perform disarming.

NO ACTION

If this option is selected, when the code is typed on the keypad is only activated the scenario that corresponds to the 'Recognized Code' event, without allowing to activate the scenarios associated with the keypad or enter the menu. This option is very useful if you want to use code to do one action only (example output activation to open a door).

LOAD PINs

By pressing this button you can load PIN from the Panel, and save them on the software database. This action, in conjunction with the 'SEND PINs', button, will allow you to clear or replace the panel without loosing the PINs. Please, note that PINs are NOT SAVED to the ***basis*** database by default, so please, NEVER use the 'SEND PINs' key without using the 'LOAD PINs' before.

TAGS

In this page you can add your Tags[8] to be used on ***ergo*** LCD keypads or on ***volo*** proximity readers. Here the tags are just enabled, theirs acquisition will then be performed by keypad programming menu. To add a Tag, press the 'Add' button, or drag the corresponding icon from the Palette. All Tags have a 4 byte code, for a total of 4.294.967.296 combinations.

LABEL

The label is the name associated with the Tag. This is used as the Tags identifier on programming pages, as a string by mail or SMS dialer and automatic generation of voice messages. Moreover, this label is displayed in the event log (logger).

GROUP

Choose the group associated with the Tag. If you don't select any groups the Tag is always on, otherwise it will be active only when the associated group is active.

CHANGE PARTITION MASK

Assign the partition on which the Tag can operate.

INSTALLER

It is a Tag that allows access to the Installer menu using a code valid for a limited period of time by an hour[9].

ENABLED

If this option is selected, the Tag is active.

PATROL

If this option is selected, the Tag can make disarming operations, but the partition will automatically be rearmed at the end of the time of patrol programmed in the 'Partitions' page (see following paragraphs).

8 The Tags are RFiD devices available on request.

9 The code will appear on the keypad display as soon as you approached the Tags set as a Installer Tag. This feature is particularly useful in the case of a large contractor with personnel to their dependencies; at the end of the working relationship with a particular person is simply the withdrawal of key supplied to the person himself, without the need to brush up on all facilities for editing 'Installer' codes of access to systems.

ARM ONLY

If this option is selected, the Tag will not perform disarming.

NO ACTION

If this option is selected, when the key is approached to the ***volo*** reader is only activated the scenario that corresponds to the event 'Recognized Code', without allowing to activate the scenarios associated with the reader or enter the menu (if approached to the ***ergo*** keypad). This option is very useful if you want to use code to do one action anly (example output activation to open a door).

LOAD IDs - SEND IDs

By pressing this button you can load IDs from the Panel, and save them on the software database. This action, in conjunction with the 'SEND IDs', button, will allow you to clear or replace the panel without loosing the IDs. Please, note that IDs are NOT SAVED to the ***basis*** database by default, so please, NEVER use the 'SEND IDs' key without using the 'LOAD IDs' before.

VOICE MESSAGES

In this page you can create, record, listen and delete your voice messages. To add a new voice message, press the 'Add' button or drag the corresponding icon from the Palette. Next, you have to select the way to create the message, importing the list from a .wav file format, or by registering them using the voice tab of your PC or, finally, generating them using the TTS engine (text-to-speech). In this case it is sufficient to write the text in the window and the software will automatically generate the corresponding voice message, or generate them from descriptions (labels) inserted into various pages.

GENERATE MESSAGES FOR THE VOCAL GUIDE

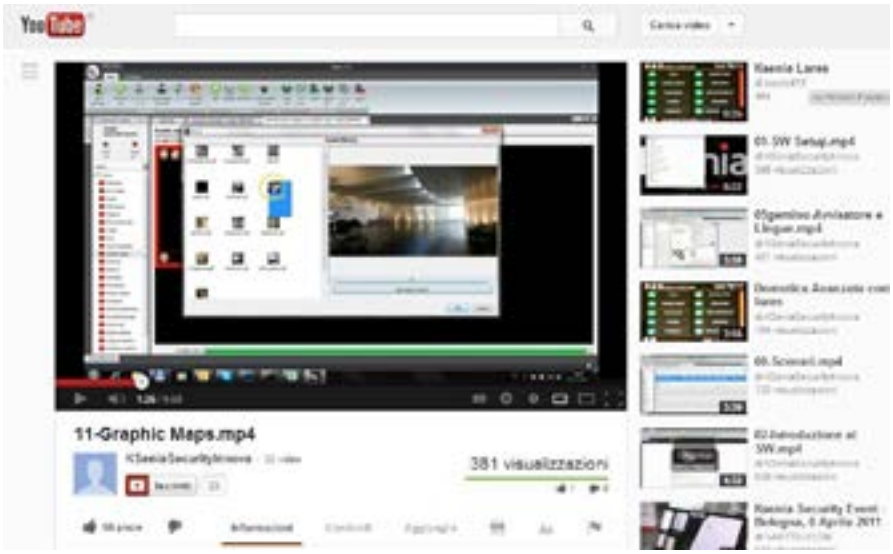
By pressing this button you can automatically generate all voice messages for the system.

GRAPHIC MAPS

In this page you can customize the Panel web-server by inserting maps, placing buttons or icons on the maps themselves, to put links to other web-servers, such as that of IP cameras. For more details (figure 8) please refer to the FAQ section of the website *www.kseniasecurity.com*.

NOTE
After a Panel firmware update you might need to resend graphic maps using the 'Send Page' button.

figure 8



ONVIF SECTION

lares Integrated web-server can interface directly cameras that support the ONVIF standard, enabling real-time viewing of streaming video from camera directly onto the Web-Server.
The ONVIF (Open Network Video Interface Forum) is a global forum which purpose is facilitating the development and use of a global standard for interfacing security systems based on IP, or create a standard where IP devices that integrate surveillance functions can communicate each other. ONVIF is an organization founded in 2008 by an agreement between Axis Communications, Bosch Security Systems and Sony.

For more informations please visit:
www.onvif.org

SYSTEM REQUIREMENTS

Today ONVIF standard defines more or less forty commands.
To be sure that the camera is compatible with the Ksenia web-server, it must support at least the following:

ONVIF Core Specifications

- WS - Probe
- WS - Hello
- GetCapabilities
- GetDeviceInformations
- GetNetworkInterfaces

ONVIF Media Service Specifications

- GetProfiles
- GetSnapShotUri

Check with the manufacturer that the camera supports the above commands.

WEBSERVER CONFIGURATION

Web Server configuration requires that camera and the running ***basis*** PC are in the same subnet.. Here below are described the operations sequence:

1. Connect the ONVIF camera and the PC runnig ***basis*** software to the same subnet.
2. Open the ***basis*** software, create or open an account and select the 'Floor Plants' page.
3. Select the map where you want to place the camera symbol, press the 'Add' button in the main menu.
4. Select 'Create a new symbol' and then 'ONVIF Camera'.
5. By pressing 'Search ONVIF devices' button you can scan the network to detect ONVIF connected cameras; after scan a list of detected cameras will be shown.
6. Select the camera, fill in the fields relating to the addresses as needed, and press the 'Finish' button.

NOTE
Some camera models often require enabling ONVIF Protocol, verify in the manual supplied by the manufacturer any activation procedure.

NETWORK TOPOLOGY AND ONVIF LIMITATIONS

ONVIF Protocol is normally used to allow devices with heterogeneous uses to communicate each other. Most commands provides for the interchange of information via UDP and HTTP POST packets.
ONVIF command structure was created to be compatible with Web Services and SOAP packaging standards (XML over HTTP). This peculiar structure allows devices to communicate each other, but needs a good preparation of the network in order to function at its best.
After setting the graphic maps, ***basis*** will retrieve all the information it needs from the camera, to allow the web-server to communicate with the device.

For this reason it is necessary, at creation of your web-server and graphic maps, that the ONVIF camera and the PC running *basis* are connected in the same subnet, and it is also necessary that the communication ports to the ONVIF standard are open.

The following table summarizes the requirements for a proper recognition of the ONVIF devices.

NETWORK CONNECTIONS	The PC on which ***basis*** is running and the ONVIF camera must be connected in the same subnet. They must be physically connected to the same router and they must have the same subnet mask (Subnet Mask).
COMMUNICATION PROTOCOL	In communication-time ***basis*** and ONVIF device will use UDP port 3702 (standard Web Services) and port 80 over HTTP. Both ports must be open and not blocked by firewall.

DATA ACCESS MODALITY

Accessing data of ONVIF cameras depends on device manufacturer.
None of the ONVIF commands that are implemented to achieve the standard integration in ***basis*** need authentication. They can be used without the use of camera username and password.
Any authentication request is entrusted to the device when accessing video streaming.

It is possible, however, that some producers force the ONVIF to require authentication for commands that do not require specifically. For this reason, the ***basis*** programming interface provides the possibility of providing authentication data directly during scanning devices.

Hence there are two possible scenarios:
1. A scan is made for ONVIF devices that are on the network without provide authentication data (leaving blank its charts controls);
   In this case the chart of ONVIF detected devices will display all compatible cameras that do not require authentication.
2. A scan is done by providing user name and password in the appropriate fields. In this case the chart of ONVIF detected devices will display all compatible cameras that comply with the authentication criteria entered and all cameras that do not require authentication.

ETHERNET
For expert users

This page is only available for ***lares16-IP***, ***lares 48-IP*** and ***lares 128-IP***. It contains the network configuration parameters[10].

Default values for ***lares*** are: 192.168.2.90 static IP address, netmask 255.255.0.0, default gateway 192.168.2.1

BOARD NAME
NETBIOS name

Is the name by which you can identify your board on the network, factory setted as 'lares_board'. This feature is available only on Windows networks.

ENABLE DHCP

By enabling this option, the board will automatically configure the network parameters only if a DHCP server is present in the network.

SMTP

The checkbox '**Enable SMTP**' will enable the panel to send emails using the SMTP protocol.

E-MAIL FROM
Input here the sender name (eg. Alarm System). Some servers may require the insertion of a valid email address (e.g., servers that do not require authentication).

SERVER
Set the name of SMTP server (e.g. mail.provider.net).

USER NAME
Set the name used to access on SMTP server.

PASSWORD
Set the authentication password.

10 We recommend that you contact your network administrator for setting these parameters before connecting the panel on the network, in order to avoid conflicts and malfunctions, even on other apparatuses.

ENABLE SSL

Select this option if the mail server requires encryption (e.g. gmail). In this case you must set also the SMTP port (eg. 465).

ENABLE WEBSERVER

This option enables the integrated web-server

ENABLE HTTPS

In case you want to use an encrypted communication, simply select this option. In this case, the address will be: *https://<panel name>:<HTTPS port>*

LIMIT NUMBER OF SIMULTANEOUS ACCESSES

Selecting this option is limited to 5 the number of IP addresses that can access the WEB resource.

WEBSERVER

USER NAME

Default: admin

Set the username for the web-server login.

PASSWORD

Default: lares

Set the password for web-server login authentication.

PORT

Default: 80

In this section it is possible to program the communication port.

HTTPS PORT

Default: 443

This section is available only if you select the option '**Enable HTTPS**'. Allows the use of encrypted communication.

ENABLE PING

By selecting this option, your board will respond to ping requests coming from the network.

ENABLE UDP DISCOVERY POLICY

By selecting this option, the panel automatically appears in the devices list, but only if the PC is on the same subnet. Otherwise, you will need to set the IP address manually to communicate with the panel. In case of PC and Panel are in two different subnets you will need to access the 'Remote Assistance' section (see following paragraphs).

ENABLE DYNDNS

By selecting this option you can enable a server to handle dynamic DNS.

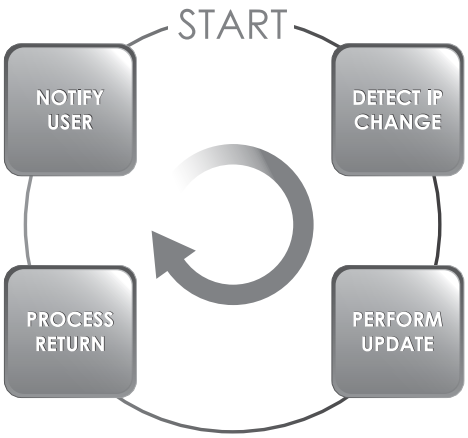
DYNAMIC DNS

By selecting this option you can enable the dynamic DNS function.

INTRODUCTION

The most known server which provides dynamic DNS service is *dyn.com* so here we will refer to it, but any other server can be used.
The dynamic DNS operation is shown in Figure 9.

figure 9



•DETECT IP CHANGE
Make a check on your address, by request to the appropriate server. If your address has changed, please update IP.

•PERFORM UPDATE
Send an update is to make a connection to a server that provides a dynamic DNS service and report your change of address. To do this you must have registered at that site and you create a hostname to bind this address.

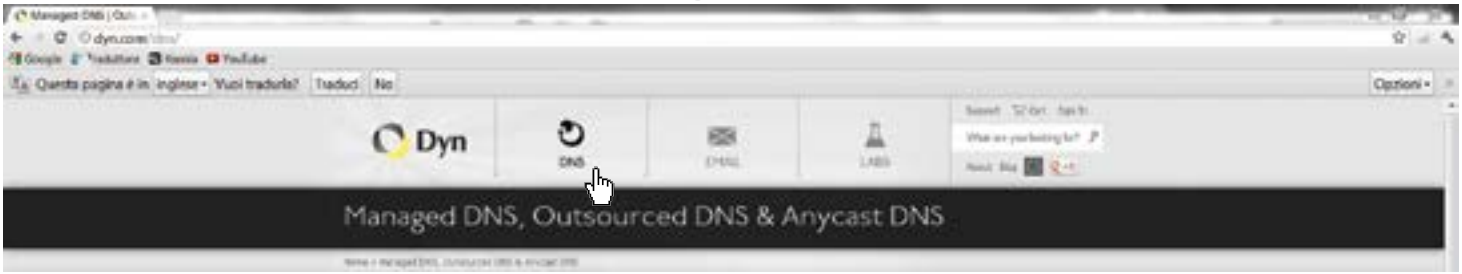
•PROCESS RETURN
Do a check on the response obtained by the DDNS server.

•NOTIFY USER
Report the user situation if required.

CONFIGURATION

1. Open the browser, go right at *www.dyn.com* and go to the DNS section (figure 10).

figure 10

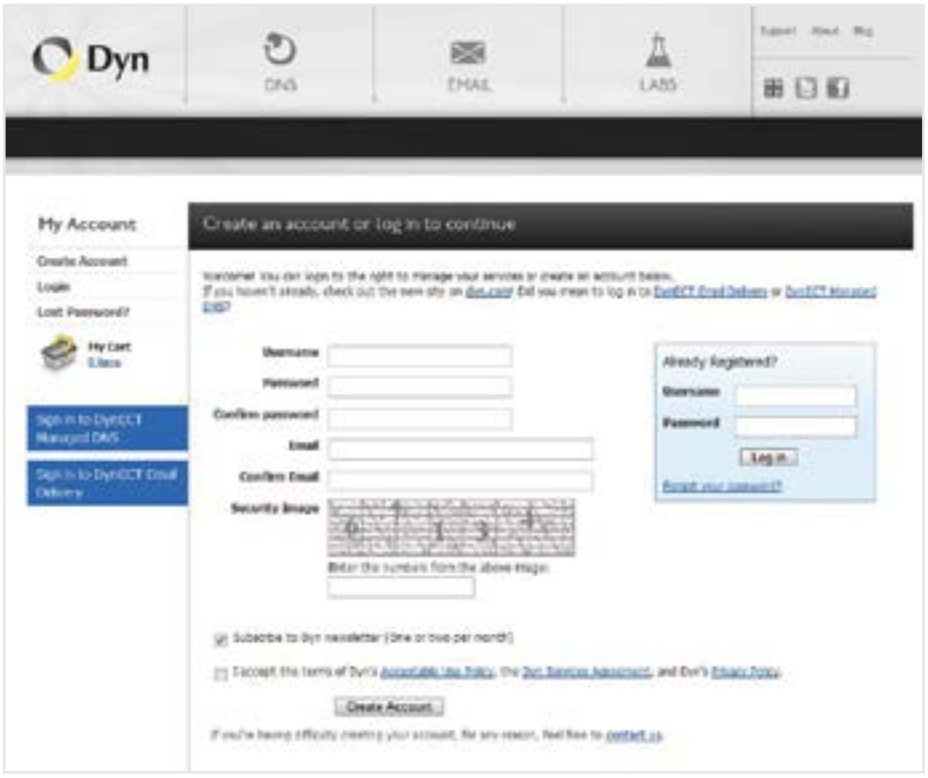


2. Select "Sign In" option (figure 11)

figure 11

3. If you already have an account, simply login by entering your Username and Password, otherwise you will need to provide the required data to create a new account (figure 12).

figure 12



Username: Enter a user name with which you can sign in to your account.

Password/Confirm Password: Enter and confirm the password with which authenticate access.

Email/Confirm Email: Enter and confirm a valid e-mail address.

Security Image: Enter the numbers displayed in the box.

Subscribe Newsletter: Select or clear this option depending on your needs.

I accept the terms of..: Select this option after you have read the Acceptable Use Policy, the Service Agreement and Privacy Policy.

Create Account: Press to confirm and conclude the registration process.

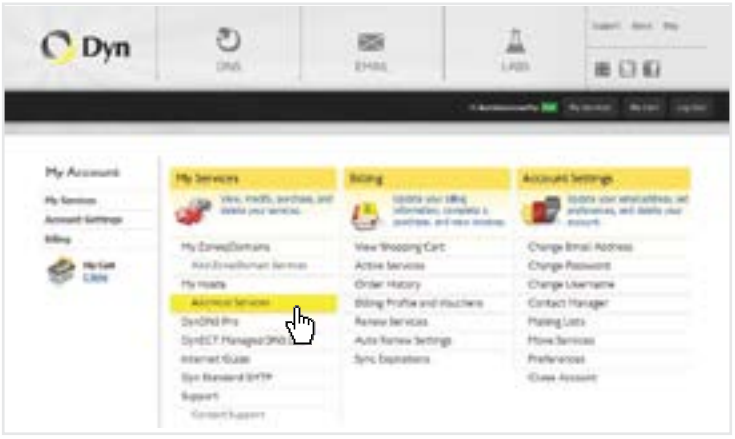
figure 13

Upon completion of the registration process the server will send an email for confirmation and account activation at the address previously posted (figure 13). Follow the procedure given in the email and activate your account.

NOTE
The email sent from the server contains a link to access to complete your account activation. This procedure must be performed within 48 hours from placing their data on the server.

4. Once you have activated your account and logged in, return to the DNS section and select the 'Add Host Services' option (figure 14)

figure 14



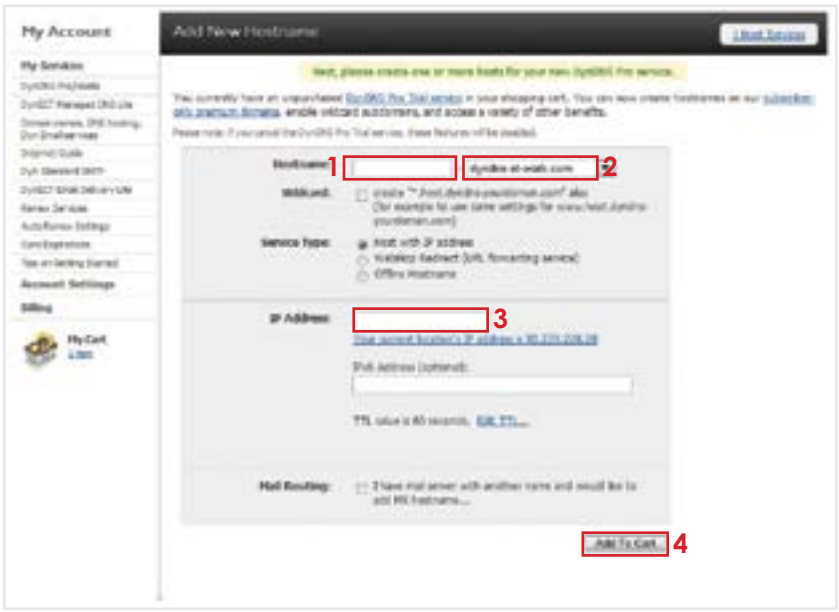
5. Select the 'ADD NEW DYNDNS HOSTNAME' option among those proposed (figure 15).

figure 15

DynDNS allows you to create a hostname that points to your home or office IP address, providing an easy-to-remember URL for quick access. We provide an update mechanism which makes the hostname work with your dynamic IP address.
ADD NEW DYNDNS HOSTNAME

6. Create the host (figure 16)

figure 16



1. Hostname: Enter in this field the identifying name of your network, your panel or its location.

2. Dominio: Select the second part of the address among those proposed.

3. IP Address: Enter in this field the IP address assigned to the network that contains the panel from your ISP.

4. Add To Cart: Press the button to continue.

NOTES

1. The address through which the user can access to the network that contains the panel, and then to the panel, will be: *http://hostname.domain*

2. For security reasons, if one http port other than the one set by default (port 80) has been assigned to the panel, you must specify this value in the address, preceded by the character 'colon'.

EXAMPLE:
http://hostname.domain:1234 in which 1234 is the port value.

7. Confirm the host creation (figure 17), select the desired payment method and confirm the service activation (figure 18).

NOTE

The figure shows the displayed screen from the server if you want to activate the TRIAL version of the service, works for 15 days. It is however necessary to provide the information required for payment, at which will reference in case you want to activate the standard service.

figure 17

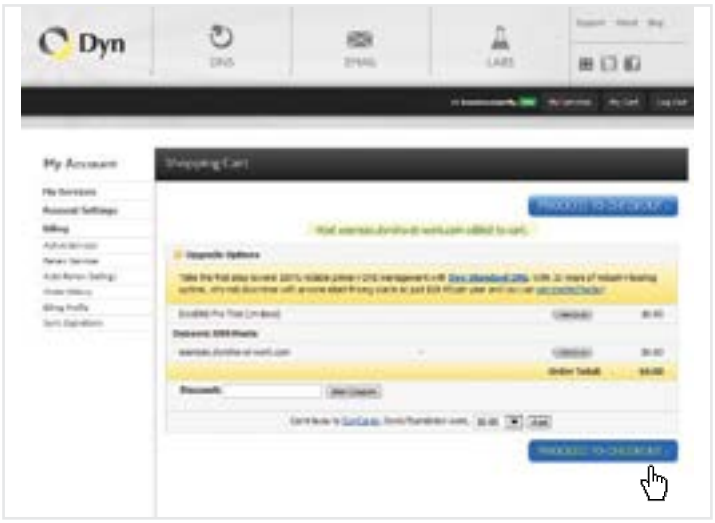


figure 18

At this point you can access your network by typing the host just created on your browser bar or simply you can do a ping to that host without knowing its IP address.

PROGRAMMING OF ACCOUNT DATA ON LARES PANEL

You can program your account data via basis software or simply via the web-server integrated in the Panel.

DNS SERVICE

Enter the DNS service name to which you are registered. Example: *dynDNS.com*

PORT

Specify the port number used by the IP Check service. Default: 80

HOST NAME

Enter here the host name defined in the preceding paragraphs.
Example: *esempio.dynDNS-at-work.com*

USER NAME

Enter here the user name defined in the preceding paragraphs. Example: *kseniasecurity*

PASSWORD

Enter here the password defined in the preceding paragraphs. Example: *123456*

SERVER IP CHECK

Enter here the server name on which the Panel will check your IP..
Example: *checkip.dyndns.com*

PORT

Specify the port number to which refers the IP Check service. Default: 80

After programming these parameters the panel, at regular intervals (or in cases where ISP-assigned IP address to its network were to change), will contact the server that provides the dynamic DNS service to update the IP address. The dynDNS service is also supported by most routers. By adjusting the parameters for the DNS service on your router you can achieve the same result.

ENABLE NTP CLIENT (NETWORK TIME PROTOCOL)

By selecting this option you can enable the date and time synchronization service from a NTP server.

NTP SETTINGS

NTP SERVER HOST NAME
Select a server among those proposed.

TIME ZONE OFFSET
Value (in hours) of time zone set.

SEND WEB SERVER

Enable the web-server function in the panel. You can choose:
EXTENDED: tabular format that allows a quick check-up of the system status and the remote management and control of the system.

COMPACT: graphic format that allows you to control and remotely manage the system.

ADVANCED ETHERNET PARAMETERS

In this section, you can modify the programming ports, *it is recommended that you contact your network administrator for setting these parameters before connecting the Panel on the network, in order to avoid conflicts and other equipment malfunctions*.

IP EVENTS

Here you can program the panel to send communication through ethernet using the SIA DC-09 protocol.

ENABLE EVENTS OVER IP

Enables the panel to send periodic supervision messages to the IP receiver.

ENABLE CHANNEL SUPERVISION

Enables the panel to send periodic supervision messages to the IP receiver

SUPERVISION INTERVAL

Time (in seconds) programmed to configure the interval between two supervision packages.

ETHERNET SERVER PORT

Port on which the panel will receive data from central station. In the network it must be open in input.

ETHERNET CLIENT PORT

Port used from the panel to send data to the central station. It must be open in output. If central station uses UDP, most likey this value is the same of server port.

GPRS SERVER PORT

Port on which the panel will receive data from central station on GPRS channel.

GPRS CLIENT PORT

Port used from the panel to send data to the central station on GPRS channel. It must be open in output. If central station uses UDP, most likely this value is the same of GPRS server port.

SUPERVISED RECEIVER

Receiver to which the panel will send the supervision data.

OPTIONS

WARNING ENABLEMENT

Enable/disable of single failure sources. Disabling a failure source will permit normal panel operation even if the failure is present. (Es. a IP panel with no ethernet connection should have Ethernet failure disabled)

In order to maintain conformity with norms listed on page 73 all faults must be enabled.

GENERAL OPTIONS

MAINS FAULT DELAY

Configure the delay time (in minutes) prior to raise the 'Power Supply fault' event.

ALLOW WAEK PINs

Selecting this option disables the robustness control of the pins, which Panel makes to prevent the insertion of easily identifiable PINs (e.g. date of birth, etc..).

UNBYPASS ZONES AFTER DISARM

Selecting this option, manually excluded Zones are automatically re-included at the moment of disarming.

In order to maintain conformity with norms listed on page 73 this option must be enabled.

LOCK KEYPAD ON WRONG PIN

Selecting this option enables every keypad to lock after 3 wrong codes.

In order to maintain conformity with norms listed on page 73 this option must be enabled.

USE ZONE #1 FOR SERVICE/SYSTEM TEST

By selecting this option the zone 1 behaves as a service entrance, putting the Panel in maintenance when it is violated.

CLEAR TAMPER MEMORY WITH USER CODE

By selecting this option you can use user code to erase the tamper memories from the 'Reset Alarms' menu on the *ergo* keypad.

In order to maintain conformity with norms listed on page 73 this option must be disabled.

LIMIT LOG ENTRY NUMBER PER EVENT

Enabling this option keeps the memory in the register a maximum of 8 occurrences for each specific event, occurred within a arming/disarming cycle or until the next maintenance of the system.
If this option is NOT selected the Panel will display the event log for each occurrence.

In order to maintain conformity with norms listed on page 73 this option must be enabled.

DENY SYSTEM ARM ON FAULT CONDITION

By default the Panel allows any kind of arming in the presence of a fault and/or tamper.
Selecting this option the Panel will not arms the partitions in case of faults.

In order to maintain conformity with norms listed on page 73 this option must be enabled.

DETECT BYPASSED ZONE TAMPER

If this option is not selected, disables both the alarm signals and sabotage of all excluded zones. By selecting this option the zone exclusion only excludes alarms.

In order to maintain conformity with norms listed on page 73 this option must be enabled.

ENABLE FAULTS MEMORY

By selecting this option the Panel displays the keypad failure recovery through the words 'Fault Memory'. This memory will be erased only after an inspection of the section 'Faults Status' by a level 2 user.

In order to maintain conformity with norms listed on page 73 this option must be enabled.

EN 50131 ARMING CHECK

By selecting this option the Panel aborts the arming if that generates an alarm and raises the 'Arming Fault' event.

In order to maintain conformity with norms listed on page 73 this option must be enabled.

PERIODIC EVENT

The Panel can be programmed to periodically send an error report, for example, to check that it is working properly.

DATE AND TIME FIRST PERIODIC TEST

In this section you can set the date and time of the first send a periodic message, in order to check it works properly. periodic event.

PERIOD

Period (in munutes) of the periodic event. If this value is 0 periodic event will not be generated.

In order to maintain conformity with the norms listed on page 73 the maximum period allowed should not exceed 300 min.

VOICE DIALLER

CONFIRM REQUEST MESSAGE

Option to add a voice message at the end of all voice communication, in order to invite the listener to press the * key to confirm receipt of the message.

CONFIRM CALL RESULT

By selecting this option you will need to confirm the receipt of the call by pressing the button on the receiving phone. Otherwise the device will accept the call as failed and proceed with the next number among those configured. This option allows you to listen to the voice message without interrupting the sequence of calls. If you enter the **#** key the panel will consider the call ackowledged. After pressing the # key you will enter the voice driven menu to interact with the Panel (see User Manual).

In order to maintain conformity with norms listed on page 73 this option must be enabled.

CALL ALL NUMBERS

Selecting this option voice messages will be sent to all configured numbers. The sequence of calls will stop only after all numbers in the list will acknowledge the call.

NOTE
The system considers equally valid possible answers from electronic devices (e.g., faxes and answering machines).

CONFIRM CALL ESIT AND CALL ALL NUMBERS

By combining these two options voice messages will be sent to all configured numbers. The sequence of calls will stop only when all numbers listed will have confirmed the call esit by pressing the * button.

HIDE CALL STATUS ON KEYPADS

This option will disable the keypads to show the calls status (i.e in case of duress disarm).

TRIES

Number of call attempts that the device performs on each configured number before the message is deleted (also in case of non-receipt of confirmation).

REPETITIONS

Represents the number of voice message repetitions during the same call.

REMOTE ASSISTANCE SETTINGS

To program these options please refere to the 'Remote Assistance' paragraph.

INSTALLER DATA

Data that will be show on the ***ergo*** keypads pressing the Enter key in idle state.

DATE AND TIME

In this section you can set the date and time, using the 'Set' button.
Daylight saving will enable the automatic switching of summer/winter time. checking this option will show a panel in which date/time changing can be programmed.

NOTE
To schedule the date and time you must enter a valid user PIN.

SCHEDULER

The scheluder is useful to arm/disarm the system using arming modes or on a partition ***basis***. It can also be used to enable/disable user groups (both codes and RFID keys).
For example, in the case of anti-intrusion system installed in an office, you might schedule the total insertion of the System throughout the day on 25 December; for normal working days you could schedule the disarming during work hours and automatic rearming in other times. Graphics mode is easy to guess: to add a daily pattern, press the 'Add' button or drag the corresponding icon from the Palette.

GENERIC TIMERS

Every event in the system can activate or deativate up to 2 generic timers. Both the start and the expiration of these generic timers are system events as well, so they can be used to generate cyclic events.
For each timer can be programmed a label and a duration expressed in seconds.

SCENARIOS

The scenarios page is the heart of the System. Each event in the system can be used to generate actions, as output set/reset/toggle, generic timers start/stop, arming modes, calls. Hereafter some examples are shown.

EXAMPLE 1 - PROGRAMMING ARMING/DISARMING FROM KEYPAD

Let's assume that you have previously defined one or more keypads and activated some functions that can be associated to keys.
Let's further say you have defined in the arming page an arming mode called 'Total Disarming 1' and one called 'Total Night Arming'.
If you want to associate with the 0 Key on the keypad 1 a system disarming will be sufficient to assign the event '0 Key on Keypad 1' in the 'Arming mode' column the 'Total Disarming 1' entry earlier defined. In the same way we can associate with the 1 key in the same Keypad 'Total Night Arming' mode; we could assign to the "Disarm partition 1" event the reset of an output.

EXAMPLE 2 - RELAY AND COMMUNICATOR ACTIVATION TO THE OCCURRENCE OF AN ALARM

When a partition alarm occurs, simply assign an output (e.g. relay) in the output column of the 'Partition Alarm' event, if we also want to start a phone call or an SMS you should add in the recipients column the programmed numbers in the phone book. In the case of voice messages you should also select the voice messages attached to the corresponding event.

EXAMPLE 3 - ARMING WITH COMMAND ZONE

Let's further say you have defined in the Arming page an arming mode called 'Total Arming 2'. Suppose that you want to use a zone to make a partition arming: simply associate with the 'Real Time Zone Alarm' the 'Total Arming 2' mode.

In order to maintain conformity with norms listed on page 73 this option must be disabled.

DETAILS OF PROGRAMMING PARAMETERS

Programming status of events is summarized in a table that displays, the actions on outputs and timer, the recipients notified and its associated voice message and arming mode enabled at the time of the occurrence of each event. In this table events can be sorted by each column, just clicking on the header of the column you want to use for sorting. Displayed columns can be customized by clicking with the right mouse key on the headers ot the table. By enabling the 'Groups Event' option you can organize events for type. In addition, you can display only one subset of events by filtering by name. This can be done by inserting a string on 'Filter:'. The 'Show Descriptions' option allows you to display labels for the programmend outputs, zones, contacts and so on.
The actions programmed for each event can be modified from the 'Details' window, acting directly on the table or by programming panel that can be enabled by checking the 'Event Detail' box. Thanks to multi-select feature you can quickly change the attributes for a group of multiple events. Let's see the meaning of each field.

OUTPUTS ON

Select the outputs (up to 8) that can be activated upon the occurrence of a specific event.

OUTPUTS OFF

Select the outputs (up to 8) that can be deactivated upon the occurrence of a specific event.

OUTPUTS TOGGLED

Select the outputs which can change status upon the occurrence of a specific event (i.e.: If the output is at rest is activated, if it was activated returns to rest).

ACTIVATE OUTPUTS

This option allows to choose whether the programmed outputs must be always enabled, enabled only when there is at least one partition armed or only when all the partitions are disarmed.

NOTE

To select the output function mode (activation, deactivation and toggle), press the icon to the right of the output name.
Every output can be used for any set of events. I.e. an output can be set if at least one partition is armed and reset only if ALL the partitions are disarmed. Follow these steps:

- Set the output in all the "Armi partition..." columns
- Reset the output in all the "Disarm partition..." events
- Provide taht the output is programmed as bistable output and the "Remote control" check is de-activated .

This type of operation must occur under the following conditions:

- The output must be bistable type
- The output shouldn't have the 'Remote Control' option enabled
- The output shouldn't be handled as a toggle on no other scenario
- The output shouldn't be associated with spot-type events.

If one ot these condition is not true, the output will be activated for any of its programmed events, but be will deactivated for any of the programmed events.

TIMERS

Select the timers (up to 2) to start/stop for the event. For each of them select the start (RED dot) or stop (GREEN dot) clicking the button at right of selection.

DESTINATIONS

Select the destinations (up to 8) of messages to be sent from the panel. The kind of message depends on the programmed attributes in the phonebook page. For example, if we associate to contact an email address, upon the occurrence of the event will automatically be sent the email, and so on. In the case of reports with SIA DC-09 Protocol select the IP receiver. The panel will manage automatically the backup receivers, so just put one IP receviver here.

MESSAGES

For voice call, select the messages to send for the event in these 4 fileds.

CODE

Contact-ID and SIA event code

ARMING MODE

Select partition arming mode that should be activated from the event.

RESET MEMORY

Check this box if the event should clear the alarm memories.

CLEAR CALL QUEUE

Check this box if the event should clear the communication queue (i.e. for disarming events)

RESET ALARMS

Check this box if the event should reset the alarm outputs (i.e. relais for disarming events)

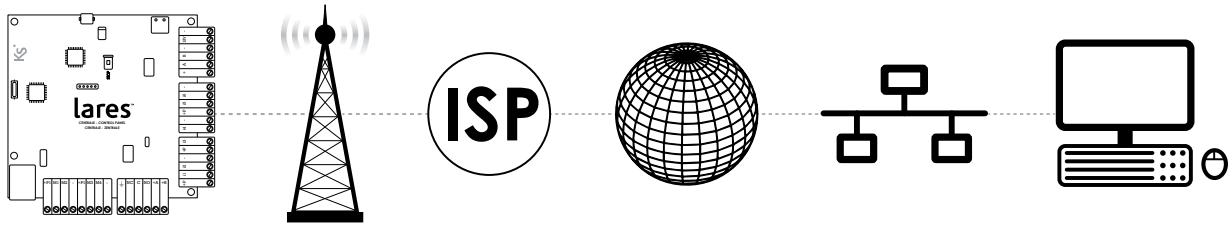
In order to maintain the GRADE 3 the Panel must be connected to the alarm receiving center exclusively through GPRS or ETHERNET with SIA DC-09 communication protocol, using the ***gemino*** GSM dialler (ATS4)

In order to maintain the GRADE 2 the Panel must be connected to the alarm receiving center via text-to-speech communication using the ***pontis*** PSTN board (ATS2). Each event must be associated with a transmission.

REMOTE ASSISTANCE

With all ***lares*** Panels you can make remote assistance via the ***gemino*** BUS Communicator, using the GSM/GPRS network for data transmission (figure 19). In addition, for ***lares 16-IP***, ***lares 48-IP*** and ***lares 128-IP*** it is possible to perform remote support on Ethernet. To enable remote assistance on Ethernet simply check the 'Use Remote Communication on Ethernet' option and enter the address in the provided space. Enabling remote assistance on GPRS requires a greater number of steps that will be described below.

figure 19



PHYSICAL LAYER

The communication over GPRS is made class 10, 3R2T asymmetrical multislot, that is 3 timeslot in receiving (43200 bps max) and 2 timeslot in transmission (28800 bps upload).
The ***gemino*** BUS interfaces the ***lares*** Panel through KS-BUS.

FIRMWARE LAYER

Performing remote assistance on GPRS requires that the devices comply at least with the following constraints on firmware:

DEVICE	FIRMWARE VERSION	BUILD FIRMWARE
gemino BUS	01.00.xx	552
lares (all models)	01.01.xx	657

To enable remote assistance, following parameters should be configured:[11]

'OPTIONS' PAGE

- Select the 'Enable Remote Assistance on GPRS' option.
- Set the value (in minutes) of the session timeout.

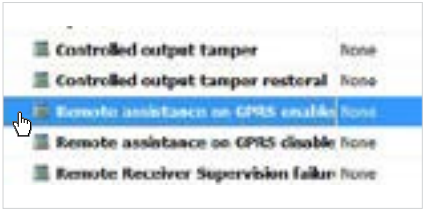
The session timeout indicates how long the Panel is accessible remotely on GPRS channel. This timer is started immediately after user enabling and rearmed for each start/service acceptance by the installer.

11 Remote assistance does not require any modem or additional device. It just requires an up-to-date ***basis*** software.

'PERIPHERALS' - 'BUS' - 'GEMINO' PAGE

- Set APN in SIM dedicated section
- Set the ports for the GPRS communication
- If you want to reach a Panel through a dynamic DNS service rather than using IP (DDNS) select "Dynamic DNS Settings'
- Ensure that the network operator provides a public IP address
- Enabling the 'Enable DynDNS' check, fill the related fields to record the "panel end-point on GPRS" at a server which provides the dynamic DNS service.

'SCENARIOS' PAGE



- Group events by kind
- Open the 'Other Events' branch

There are two new events:

Remote Assistance on GPRS Enabled

Remote Assistance on GPRS Disabled

These events can be programmed and as such you can bind to them SMS and/or e-mail sending.
Upon the 'Enabled' event the body of the message or email contains the IP address obtained on GPRS channel. In case you log the device on a DynDNS server it is not necessary to program the SMS except for confirmation.

OPERATION

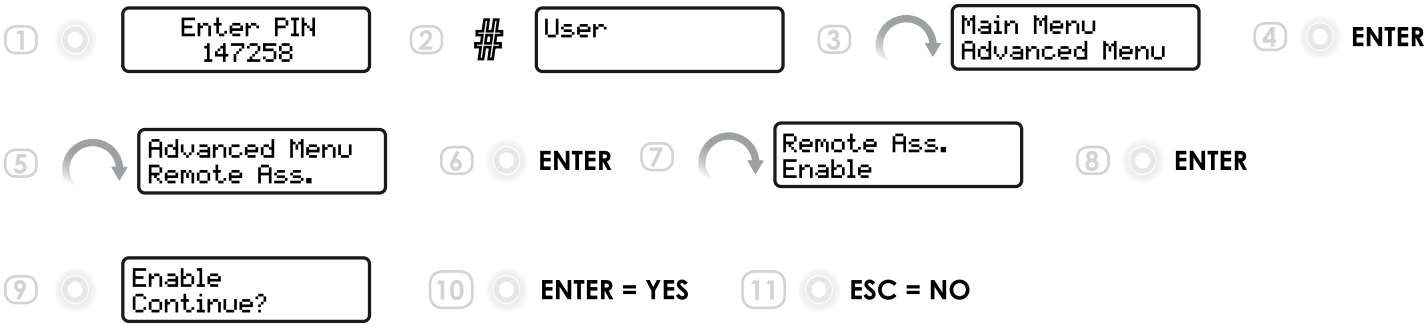
Remote Assistance operation consists of 5 logical blocks:

ENABLING/OPENING SUPPORT SESSION BY THE USER

This operation can be performed in several ways:

1. Activation by SMS:
The SMS body should contain: (user code)(M/m) 1, no spaces between text characters.
Example: **147258m1**

2. Activation by Keypad:



Upon completion will display the Remote Assistance status in the first row of the display.

3. Enabling by Protocol
For third-party applications that want integrate themselves with *lares* Panels.

STARTS/ACCEPTANCE BY THE INSTALLER/ASSISTANT

1. Enter the 'Remote Assistance' page

• Select the 'Remote Communication on GPRS' option. Once selected you can enter the logical name or IP address (received via mail or sms after programming) and the listening port of Panel in Remote Assistance mode.

• As soon as the panel you just added in the previous step appears in the devices table (in Plug&Play mode check on devices is automatically done), you can start a Remote Assistance session.

• Press on the 'Start Remote Session' button to begin a session. Upon receipt of the response message you will be able to interact with the Panel.

DATA EXCHANGE

Data exchange between *lares* and *basis* software will take place as per protocol, except for sending/receiving information involving a delta of delay introduced by GPRS channel.

END OF ASSISTANCE SESSION BY THE INSTALLER/ASSISTANT

Pressing 'Stop Remote Session' in 'Remote Assistance' page you will terminate the current session.

NOTES

During a remote assistance session by the installer you can do more than one 'Send page', then more than a entry in programming. The data configured during this session are actually updated on Panel only at the end of the current session. With this option you can also modify the data configuration closely connected to Remote Assistance, without losing control of the GPRS Panel interface.

If the 'Remote Assistance by Installer' logoff message does not arrive at the Panel, all data successfully sent will be updated only after the expiry of the time-out of 'Remote Assistance by User' session.

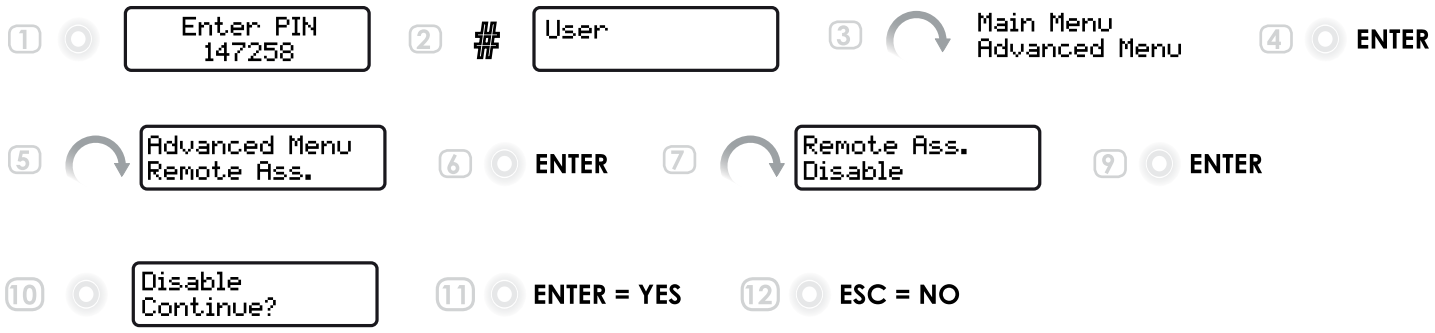
Installer Pin, although disabled during Remote Assistance, is automatically considered enabled.

END OF ASSISTANCE SESSION BY THE USER

This operation can be performed in several ways:

1. Activation by SMS:
The SMS body should contain: (user code)(M/m) 0, no spaces between text characters.
Example: **147258m0**

2. Activation by Keypad:



Upon completion will display the Remote Assistance status in the first row of the display.

3. Disabling by Protocol
For third-party applications that want integrate themselves with ***lares*** Panels.

NOTES
Before starting the remote assistance, it would be better to make preliminary check:

Check that the communication ports from ***gemino*** and installer pc side are open (in the worst case both inbound and outbound), that is a port mapping has been made.

Configure ports keeping in mind that communication with Ksenia peripherals uses the UDP protocol.

Verify that the IP addresses assigned to the SIM CARD are actually public IP addresses (sometimes, in case of prepaid SIM, see Vodafone, public IP are not assigned).
Such verification must be completed even if pc installer side uses a wireless device for the connection.

Increase the timeout and communication attempts on the options page: timeout at least >= 8 seconds attempts at least >= 3.

KEYPAD LANGUAGES

On this page system language can be choosen. You can program up to 10 languages on the Panel (available languages on ***lares***), taken from the list of available languages (available languages on ***basis***).

DATE AND TIME OPTIONS

DATE MODEL

Select the date model you want among those proposed:

DD/MM/YY: day – month – year example: 31/01/13

MM/DD/YY: month – day – year example: 01/31/13

YY/MM/DD: year – month – day example: 13/01/31

HOUR MODEL

Select the hour mode you want between 12h and 24h.

EVENTS LOG

On this page you can read the event log of the Panel. Press the 'Load' button in the main menu to read the event log. You can select events and copy them (Ctrl-C), for example, to store them on a text document.

Events are stored on non-volatile memory (Flash) with 100.000 write cycles and a minimum of 10 years of data storage.

REALTIME EVENTS

Activating this button, the software periodically checks the Panel register, downloading the new events as they occur.

REALTIME

In the Realtime pages you can check the System status. It provides the display of the Zones status (Realtime zone), the outputs status, partition status (Realtime partition), the status of devices connected on the BUS (Realtime devices), the wireless devices status (wireless Realtime) and Panel and failures status (Panel realtime).

ergo LCD KEYPAD PROGRAMMING MENU

To enter the programming menu by ***ergo*** keypad enter the installer PIN (default 123456) or use a RFID key with installer attribute. Refer to the keypad manual for the use and functions of buttons and circular scroll.
This section shows the programming tree. About the meaning of the parameters, but specific descriptions, you can simply reference the preceding paragraphs, since both the order of the menu and used terminology is the same as that used on ***basis*** software.

NOTE
Log in as Installer is inhibited when partitions are armed. Also log in as Installer (both with key and code) must be enabled by a main user in the user menu, under 'Install. Permission' setting to ON. If enable is set to OFF the use of the installer code is inhibited (considered wrong code).

INSTALLER MENU STRINGS

To access a sub-menu in programming phase you have to tap the 'ENTER' key.

Event Log

- Verified events scroll starting from last one
  - Scroll in detail the informations (date, time, generator) about the selected event.

Programming
See following paragraph

Program from USB
Allows loading data from USB key connected to the Panel.

Language

- Scroll among available languages

IP Address

- IP Address of Panel (xxx.xxx.xxx.xxx)

Failure status

- Scroll the faults in progress

Battery status

- Devices batteries status

Zones status

- Scroll the zones and display their status
  - Display the value of the resistance (in ohms) read in the selected zone. If the zone is analogic the voltage appears at the zone input.

Modify PIN
(appears only if the programming menu is entered by a code, and not by a RFID key)

***ergo* version**
It shows the serial number and the firmware version of ***ergo*** keypad

INSTALLER MENU STRINGS

Partitions

- Scroll of partitions
  - Description
  - Automatic memories restore
  - Pre-alarm time (sec.)
  - Exit time (sec.)
  - Notice time (min.)
  - Patrol time (min.)

Arming

- Scroll of arming
  - Description
  - display the actions associated with each partition for that arming mode.

    '-' = no action
    '0' = disarming
    '1' = arming
    'i' = immediate arming
    'c' = toggle

  - Scroll of partitions and possibility to associate the action to be performed when that arming mode is relied. Possible actions for each partition are:
    - No action
    - Arming
    - Immediate arming
    - Disarming
    - Toggle

Zones

- Scroll of zones
  - Kind of Zone
    - Wired
    - Wireless PIR
    - Wireless CM
    - Wireless AUX
    - WIreless SMOKE
  - Description
  - Mode
    - Not used
    - Standard
    - Inertial
    - Roller blind
    - Analogic (it appears only if the zone has been programmed analogic by ***basis***. Using the keypad is not possible to program an analogic zone)
  - Balance
    - Normally open
    - Normally closed
    - Balanced
    - Double balance
    - Triple balance
    - Tamper balance
    - Custom (it appears only if the thresholds have been customized through ***basis***. When programming from keypad is not possible thresholds customization)
  - Partition Mask
    - Scoll of partition and ability to associate or not the zone to the selected partition.

Zones

- Scroll the Zones
  - Chime
  - 24 Hours
  - Test
  - Command
  - Pulse number (only values ranging from 1 to 7 are valid)
  - Noise Immunity (displayed only if the zone is 'Wireless PIR')
  - PIR always active (displayed only if the zone is 'Wireless PIR')
  - Input delay
    - Immediate
    - Delayed
  - Output delay
    - Immediate
    - Delayed

Outputs

- Scroll the outputs
  - Description
  - Mode
    - Not used
    - Digital
    - Analogic
  - Polarity
    - Normally open
    - Normally closed
  - Kind
    - Monostable
    - Bistable
  - ON Time (This menu is displayed only when you set output as Monostable. The value is expressed in tenths of a second)
  - Controlled (This menu is enabled only for the the relay one in the mainboard)

BUS Peripherals

- Assign (this menu shows the devices connected to the ***lares*** and not yet configured. Each device is identified by its serial number. Each device can be associated with a new device or a device already set by software).
  - Scroll peripherals present on the BUS and not yet registered in the system
    - Scroll between the saved configurations that are compatible with the selected device. Ability to assign the device to a configuration or register the device with the default configuration by selecting <New Periph.>
  - Free (This menu is enabled only for the the relay one in the mainboard. The configuration of the device is not removed, so it can be reused on a different device, e.g. If you want to replace a device).
    - Scrolling between the devices registered in the system and possibility to remove the device from your System without deleting the configuration that can be assigned to a new device connected on the BUS and not yet registered.
  - Delete (remove devices from lares panel programming.. Unlike the command 'Free' in this case is also cancelled the programming defined for this device).

***ergo* Keypads**

- Scroll the ***ergo*** keypads
  - Partition Mask
    - Scroll the partitions and ability to enable the keypad for the selected partition
  - Information at rest
    - Date and time
    - External temperature
    - Internal temperature
    - GSM Operator
    - Partition status
    - Zone status
  - Keys and Scenarios
    - Key 0 Description
    - Key 0 with PIN
    - Key 0 without PIN
    - Key 1 Description
    - Key 1 with PIN
    - Key 1 without PIN
    - Key 2 Description
    - Key 2 with PIN
    - Key 2 without PIN
    - Key 3 Description
    - Key 3 with PIN
    - Key 3 without PIN
    - Key 4 Description
    - Key 4 with PIN
    - Key 4 without PIN
    - Key 5 Description
    - Key 5 with PIN
    - Key 5 without PIN
    - Key 6 Description
    - Key 6 with PIN
    - Key 6 without PIN
    - Key 7 Description
    - Key 7 with PIN
    - Key 7 without PIN
    - Key 8 Description
    - Key 8 with PIN
    - Key 8 without PIN
    - Key 9 Description
    - Key 9 with PIN
    - Key 9 without PIN

***volo* Proximity Readers**

- Scoll the ***volo***
  - Partition Mask
    - Scroll the partitions and ability to enable the reader to the selected partition
  - LEDs and scenarios
    - Green LED
    - Red LED
    - White LED
    - Blue LED
    - Yellow LED
  - ***volo*** options
    - LED at disarmed system
    - Display of System status

Wireless

Enroll

- <New Periph.>
  - Enrolling…
- <Custom programmation>

Free

- Disconnecting wireless devices from the lares panel, without loosing their programming data

Delete

- Remove wireless devices from lares programming

Codes management

New code

- Scrolling between the empty positions on which you can save the new code
  - Enter PIN

Code options

- Scroll the valid codes
  - Description
  - Change PIN
  - Partition mask
    - Scrolling between the different partitions and ability to enable or disable the code for the selected partition
- Enable
- Main code
- Patrol
- Arming only

Delete code

- Remove an existing code

Tags management

Save Tag

- Enroll a new RFID tag in the system

Assign Tag

- Assign a RFID tag to a previous programmed tag position

Tag options

- Modify RFID tag parameters

Delete Tag

- Remove a previously programmed RFID tag

Tag options

- Description
- Installer
- Enable
- Patrol
- Arming only
- Partition mask
  - Enable/disable RFID tag on partitions

Scenarios

Arming mode

- Assign arming mode at the current event

Output

- Output
  - Assign outputs to the current event
- Action
  - No action
  - Enable
  - Restore
  - Toggle

SUMMARY TABLE OF START-STOP EVENTS
events that have a specific start and end point*

*The table refers to the *lares* with 1.5.XXX firmware version

KIND OF EVENT	CATEGORY	RECURRENCE	OCCURS WHEN...	ENDS WHEN...	Contact ID EVENT CODE	SIA EVENT CODE	GG	CCC
Zone alarm Zone restore	Zone Events	Number of Zones	An armed zone is violated	The status change or the zone is disarmed	130	BA BR	Associated Partition 0 0 if the zone belongs to more than one partition	Zone number
Sabotaggio Zona Ripristino Sabotaggio Zona		Number of Zones	A zone is sabotaged or put in blackout	The status change	137	TA TR		
Excluding zone Including zone		Number of Zones	The zone is excluded	The zone is reincluded	570	BB BU		
Fault or zone masking Fault restore or Masking		Number of Zones	A zone is masked or the inactivity time expires	The status change or the zone is armed	388	BT BR		
Realtime zone Restore of realtime zone		Number of Zones	A disarmed zone is violated or a violated zone switch from armed to disarmed	The zone comes back to rest	600	UA UH		
Partition arming Partition disarming	Partition Events	Number of Partitions	The zone is armed	The zone is disarmed	400	CL OP	Partition number	0 0 0
Chime on Partition End of chime on Partition		Number of Partitions	The chime is enabled	The chime is disabled				
Patrol on Partition End of patrol on Partition		Number of Partitions	Disarming System with a code or patrol Tag	End of patrol period or System rearming				
Partition pre-alarm Restore Partition pre-alarm		Number of Partitions	Input time starts	Input time expires or is stopped by disarming the partition				
Partition notice End of Partition notice		Number of Partitions	The notice of scheduler is started	The notice of scheduler is stopped				
Exit time End of exit time		Number of Partitions	The exit time is started	The exit time expired or is stopped				

KIND OF EVENT	CATEGORY	RECURRENCE	OCCURS WHEN...	ENDS WHEN...	Contact ID EVENT CODE	SIA EVENT CODE	GG	CCC
Missing Peripheral Peripheral restored	Peripherals	Number of BUS Peripherals	A peripheral disappears from the BUS	The peripheral comes back to work properly	330	ET BR	Peripheral number	0 0
Peripherals tamper Tamper restore		Number of BUS Peripherals	The peripheral is open	The peripheral is closed again	341	ES EJ	Peripheral number	0 0
Missing wireless Peripheral Restore of wireless Peripheral		Number of Wireless Peripherals	A wireless peripheral disappears	The wireless peripheral comes back to work properly	330	ET ER		
Wireless peripheral tamper Wireless Peripheral tamper restore		Number of Wireless repeaters	The peripheral is open	The peripheral is closed again	341	ES EJ		
Start Timer Stop Timer	Timers	Number of generic timers	The Timer starts	The Timer expires	600	UX UX	Timer number	0 0 0
Panel tamper Panel tamper restore	Altri eventi	1	The Panel cover is open	The Panel cover is closed	137	TA TR	0 0	0 0 0
Missing net Net restore	Power supply	***lares*** Panel + number of ***duo*** wireless receivers + number of ***opis*** power supply stations	Missing power supply on ***lares***, on ***duo*** wireless receiver or on ***opis*** power supply station	Restore of power supply on ***lares***, on ***duo*** wireless receiver or on ***opis*** power supply station	301	AT AR	0 0	0 0 0
Low battery Restore of low battery	Power supply	***lares*** Panel + number of ***imago*** sirens + number of ***radius*** sirens + number of ***duo*** wireless repeaters + number of ***opis*** power supply stations	The battery voltage drops below the threshold (when missing net)	The 220V net comes back	302	YT YR	0 0	0 0 0
Missing Ethernet Ethernet restore	Other events	1	The Ethernet cable is disconnected	The Ethernet cable is connected	350	NT NR	0 0	0 0 0
Missing PSTN PSTN restore		1	The ***pontis*** telephone line is cutted	The ***pontis*** telephone line is restored	351	LT LR	0 0	0 0 0
Loss GSM net Restore of GSM net		1	Missing GSM net on ***gemino***	The GSM net on ***gemino*** is restored	352	NT NR	0 0	0 0 0
Start maintenance Stop maintenance		1	Enter the programmation with installer code	Exit from programmation	300	LB LX	0 0	0 0 0

KIND OF EVENT	CATEGORY	RECURRENCE	OCCURS WHEN...	ENDS WHEN...	Contact ID EVENT CODE	SIA EVENT CODE	GG	CCC
Controlled output tamper Controlled output tamper restore	Other events	1	Removes a EOL resistor on relay	Restore of EOL resistor on relay	324	YA YH	0 0	0 0 0
Fuse fault Fuse restore	Power supply	***lares*** Panel + number of ***opis*** power supply stations	The thermal fuse enter in protection	Restore of thermal fuse	300	YI YJ	0 0	0 0 0
GPRS Remote Assistance enabled GPRS Remote Assistance disabled	Other events	1	A remote assistance session via GPRS is enabled	A remote assistance session via GPRS is disabled	410	RB RS	0 0	0 0 0
Failed supervision of IP Receiver Restore of supervision of IP receiver		1	Failure of IP receiver supervision	The IP receiver responds to the supervision packets	356	YS YK	0 0	0 0 0
Battery charger fault Restore of battery charger	Power supply	***lares*** Panel + number of ***opis*** power supply stations	The power supply fails and fails to provide the necessary current to the system	The fault is restored	300	YP YQ		
Low output voltage Restore of low output voltage		***lares*** Panel + number of ***opis*** power supply stations	The output voltage of power supply drops below the threshold	The output voltage of power supply comes back over the threshold	312	YP YQ		
Radio noise on transceiver Restore of radio noise on transceiver	Other events	Number of ***duo*** transceiver	Radio noise detected at 868MHz	End of radio noise at 868MHz	137	XQ XH		

SUMMARY TABLE OF SPOT EVENTS
events that have a start only

NOTE
For Occurrence means the number of times the event occurs in the table. For example the alarm zone occurs once for each zone.

KIND OF EVENT	CATEGORY	RECURRENCE	OCCURS WHEN...	Contact ID EVENT CODE	SIA EVENT CODE	GG PARTITION	CCC ADDRESS
First analogic level	Zone events Analogic levels	Number of analogic zones	Analogic input voltage falls within level 1			Associated partition 0 0 if the zone belongs to more than one partition	Numero zona
Second analogic level			Analogic input voltage falls within level 2				Numero zona
Third analogic level			Analogic input voltage falls within level 3				Numero zona
Fourth analogic level			Analogic input voltage falls within level 4				Numero zona
Fifth analogic level			Analogic input voltage falls within level 5				Numero zona
Partition alarm	Partition events	Number of partitions	The zone alarm occurs (one of zones goes in alarm)	130	BA	Partition number	0 0 0
Partition tamper			The zone alarm occurs (one of zones goes in tamper)	137	TA	Partition number	0 0 0
Negligence on partition			The negligence timer expires	404		Partition number	0 0 0
Missed arming			The partition arming is not successful	0	UX		
0 Key on keypad X	Keys on keypad	Number of keypads	Macro 0 activated on keypad or code entered + macro 0	120	PA	0 0	0 0 0
1 Key on keypad X			Macro 1 activated on keypad or code entered + macro 1	120	PA	0 0	0 0 0
2 Key on keypad X			Macro 2 activated on keypad or code entered + macro 2	120	PA	0 0	0 0 0
3 Key on keypad X			Macro 3 activated on keypad or code entered + macro 3	120	PA	0 0	0 0 0
4 Key on keypad X			Macro 4 activated on keypad or code entered + macro 4	120	PA	0 0	0 0 0
5 Key on keypad X			Macro 5 activated on keypad or code entered + macro 5	120	PA	0 0	0 0 0
6 Key on keypad X			Macro 6 activated on keypad or code entered + macro 6	120	PA	0 0	0 0 0
7 Key on keypad X			Macro 7 activated on keypad or code entered + macro 7	120	PA	0 0	0 0 0
8 Key on keypad X			Macro 8 activated on keypad or code entered + macro 8	120	PA	0 0	0 0 0
9 Key on keypad X			Macro 9 activated on keypad or code entered + macro 9	120	PA	0 0	0 0 0
Green LED on reader X	Readers	Number of readers	Activated scenario associated with the Green LED on the reader	600	UX	0 0	0 0 0
Red LED on reader X			Activated scenario associated with the Red LED on the reader	600	UX	0 0	0 0 0
White LED on reader X			Activated scenario associated with the White LED on the reader	600	UX	0 0	0 0 0
Blue LED on reader X			Activated scenario associated with the Blue LED on the reader	600	UX	0 0	0 0 0
Yellow LED on reader X			Activated scenario associated with the Yellow LED on the reader	600	UX	0 0	0 0 0
Timer of Scheduler	Scheduler	Number of timers of Scheduler	Expiry of timer of Scheduler	630	DU		

KIND OF EVENT	CATEGORY	RECURRENCE	OCCURS WHEN...	Contact ID EVENT CODE	SIA EVENT CODE	GG PARTITION	CCC ADDRESS
Total arming key on Remote control	Remote controls	Number of Remote controls	Short pression on total arming key	600	UX		
Disarming key on Remote control			Short pression on disarming key	600	UX		
Partial arming key on Remote control			Short pression on partial arming key	600	UX		
Long pression on info key on Remote control			Long pression (3 seconds) on info key	120	UX		
Lonf pression on total arming key on Remote control			Long pression (3 seconds) on total arming key	600	UX		
Long pression on disarming key on Remote control			Long pression (3 seconds) on disarming key	600	UX		
Long pression on partial arming key on Remote control			Long pression (3 seconds) on partial arming key	600	UX		
Code recognized	Codes / Tags	Number of codes	A valid code is entered on keypad	422	JP	0 0	Code number
Tags recognized		Number of Tags	A valid Tag is approached to the keypad or to a reader	422	JP	0 0	Tag number +200
Battery fault	Other events	***lares*** Panel + number of ***imago*** sirens + number of wireless detectors + number of ***opis*** power supply stations	Failure of battery dynamic test	311	YT	0 0	0 0 0
Periodic test		1	Periodic event	602	RP	0 0	0 0 0
System shutdown		1	Controlled shutdown of the system when it miss the power supply and the battery is discharged	600	JR		
System reset		1	The Panel was restarted because it is removed and then restored the power supply or due a system failure	600	YW		
Wrong code		1	For three consecutive times you have typed a wrong PIN code on the same keypad	421	DD	0 0	0 0 0
Communication failed	Communication	Number of phonebook contacts	The call faults	354	RT	0 0	Phonebook number
Caller recognized			The caller number is recognized (CLIP function)	422	DU	0 0	Phonebook number
Temperature under minimun threshold on ***imago*** X	Temperatures	Number of ***imago***	The temperature measured by ***imago*** X is minor than the lower threshold	159	ZA	0 0	***imago*** siren number
Temperature within threshold on ***imago*** X			The temperature measured by ***imago*** X is between the lower and the upper threshold	159	ZA	0 0	***imago*** siren number
Temperature over threshold on ***imago*** X			The temperature measured by ***imago*** X is greater than the upper threshold	158	ZH	0 0	***imago*** siren number

KIND OF EVENT	CATEGORY	RECURRENCE	OCCURS WHEN...	Contact ID EVENT CODE	SIA EVENT CODE	GG PARTITION	CCC ADDRESS
Temperature under minimun threshold on *radius* X	Temperatures	Number of *radius*	The temperature measured by *radius* X is minor than the lower threshold	159	ZA	0 0	*radius* siren number
Temperature within threshold on *radius* x		Number of *radius*	The temperature measured by *radius* X is between the lower and the upper threshold	159	ZA	0 0	*radius* siren number
Temperature over threshold on *radius* x		Number of *radius*	The temperature measured by *radius* X is greater than the upper threshold	158	ZH	0 0	*radius* siren number

PROGRAMMING SUMMARY

This paragraph summarizes programming options that ensure the proper functioning of Panel based on the parameters defined by the norms listed on page 73. If these programming data are changed the Panel shall NOT be compliant with these norms.

PROGRAMMING ALARM, TAMPER AND FAULTS EVENTS

EVENT	PROGRAMMING OUTPUTS SECTION	PROGRAMMING DESTINATIONS SECTION
Zone alarm Partition alarm	Select the output associated with ***imago*** siren (or relay output if you are using third-parts sirens)	Select at least one destination present on phonebook
Zone tamper Partition tamper Panel tamper Controlled output tamper Peripheral tamper Missing Peripheral	Select the output associated with ***imago*** siren (or relay output if you are using third-parts sirens). You must also select 'When system armed' in 'Activate output' section (output activation is required only for the GRADE 2)	Select at least one destination present on phonebook
Masking/Zone faults Missing net Low battery Missing Ethernet Missing PSTN line GSM trouble Fuse protection Power supply faults Low power supply voltage Battery faults Communication faults System reset	Is not allowed to activate no acoustic signaling device.	Select at least one destination present on phonebook

If you programmed Zone alarm events, you do not need to program the partition alarm, and vice versa. Similarly should be programmed Zone tamper and Partition tamper events.

ARMING AND DISARMING OPERATIONS ALLOWED

All options that allow to arm and disarm the System without the use of an adequate level of access do not conform. In particular, you cannot bind arming mode to zones programmed as 'Command' or keys on the keypad that has enabled the 'No PIN' option.

ALARMS TRANSMISSION

GRADE 3

Events should be transmitted to the alarm receiving center exclusively through GPRS network (via ***gemino*** Communicator-ATS4) or Ethernet (in case of IP Panel) with SIA DC-09 communications protocol. On the contacts page can be programmed the IP receiver to be selected as a destination. To enable events transmission on IP you must turn on the 'Enable events on IP' option. You also need to enable a supervision by selecting 'Enable supervision' or programming the receiver as the destination on 'Periodic Test' event. The 'Periodic Test' period, to be set on the options page, must be less than 300 minutes.

ALARMS TRANSMISSION

GRADE 2

The use of ***pontis*** (ATS2) and text-to-speech communication is permitted. You must enable a supervision programming a destination to the 'Periodic Test' event. The 'Periodic Test' period, to be set on the options page, must be less than 1500 minutes.

In any case the 'Confirm call result' should be always enabled.

OTHER CONSTRAINTS ON PROGRAMMING

- The maximum programmable input time on partition page should not exceed 45 seconds.
- In case of using scheduler, the notice timeprogrammable on the partitions page must be greater than 0. Must also select 'Notice' option in 'Acoustic feedback' for each ***ergo*** keypad programmed into System.
- For each ergo keypad programmed into your system must be enabled 'Input time' and 'Exit time' options of 'Acoustic feedback' section. Between operations at rest must be selected the 'Notices with PIN' while 'Open Zones' and Partition status' options should NEVER be enabled.
- Regarding the processing mode of the alarm zones, the option 'Analogic' must not be selected.
- Regarding the balancing of alarm zones, 'Normally Closed' and 'Normally Open' options must not be selected.
- Enabling the 'Self-exclusion' option is allowed only when using the scheduler and enable the 'Automatic Reinclusion' option.
- The 'Pulse lenght' option must be greater than 400 ms.
- The 'Include zones after disarm' option must be enabled.
- On the options page, faults must be all enabled.
- On the options page, the 'Lock Keypad on wrong PIN' option must be enabled.
- On the options page, 'Clear tamper memory with user code' option must be disabled.
- On the options page, the 'Limit log entry number per event' option must be enabled.
- On the options page, the 'Deny system arm on fault condition' option must be enabled.
- On the options page, the 'Detect bypassed zone tamper' option must be enabled.
- On the options page, the 'Enable faults memory' option must be enabled.
- On the options page, the 'EN 50131 arming check' option must be enabled.
- The 'BUS Control' option on ***imago*** siren must be enabled.
- On the events page must be enabled the 'Clear call queue' option for all the events of partition disarming.

CERTIFICATIONS

T 014 / 1th Edition 2003 + A1:2002 + A2:2003 + A3:2005 • EN50131-3 • EN50131-6 • EN50136-1-1

CERTIFYING BODY: IMQ - Sistemi di Sicurezza

GRADE 3 • CLASS II

Installation of these systems must be carried out strictly in accordance with the instructions described in this manual, and in compliance with the local laws and bylaws in force. These devices hare been designed and made with the highest standards of quality and performance adopted by Ksenia Security. Is recommended that the installed system should be completely tested at least once a month. Test procedures depends on the system configuration. Ask to the installer for the procedures to be followed. Ksenia Security srl shall not be responsible for damage arising from improper installation or maintenance by unauthorized personnel. The content of this guide can change without prior notice from KSENIA SECURITY.

Information for users: Disposal (RAEE Directive)

Warning! Do not use an ordinary dustbin to dispose of this equipment.
Used electrical and electronic equipment must be treated separately, in accordance with the relative legislation which requires the proper treatment, recovery and recycling of used electrical and electronic equipment.
Following the implementation of directives in member states, private households within the EU may return their used electrical and electronic equipment to designated collection facilities free of charge. Local retailers may also accept used products free of charge if a similar product is purchased from them.*
If used electrical or electronic equipment has batteries or accumulators, these must be disposed of separately according to local provisions.
Correct disposal of this product guarantees it undergoes the necessary treatment, recovery and recycling. This prevents any potential negative effects on both the environment and public health which may arise through the inappropriate handling of waste.

** Please contact your local authority for further details.*

ENVIRONMENTAL CARE

lares has been specifically designed and manufactured for the environmental respect as follows:

1. No PVC
2. Halogen free laminates and lead-free PCBA
3. Low consumption
4. Packaging realized mainly with recycled fibers and materials

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